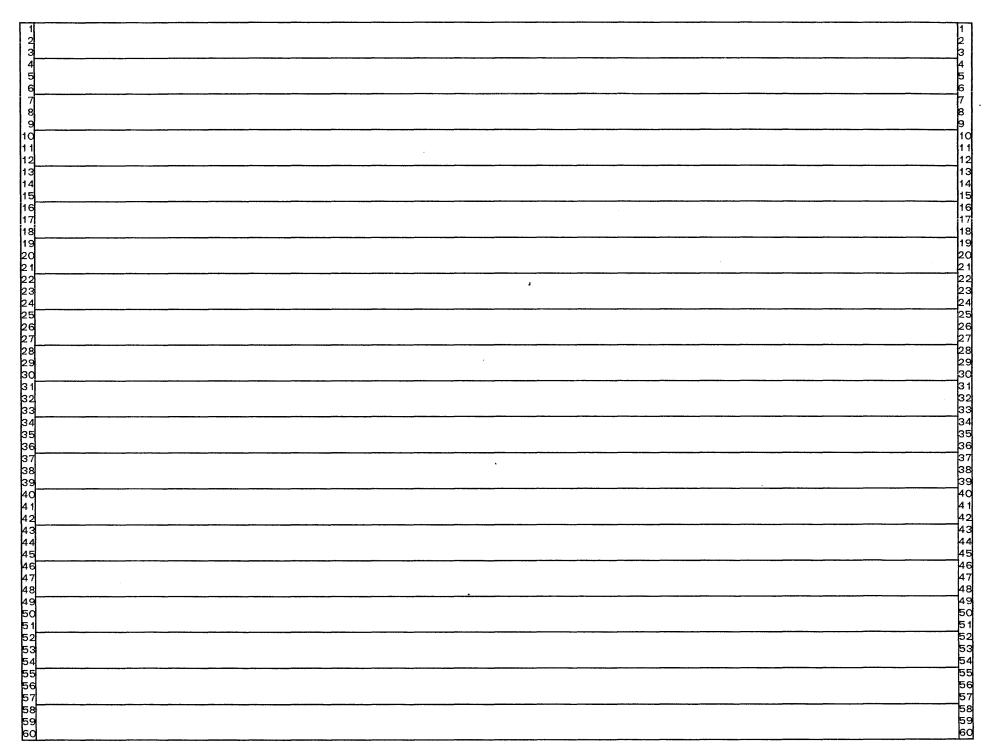
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HARDWARE OVERVIEW	
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APPENDIX A	
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12	HARDWARE OVERVIEW	112
13	HARDWARE OVERVIEW	4:4
14		113
14 15	INTRODUCTION	14
13	INTRODUCTION	413
17		10
16 17 18		11.7
10	This section is an overview of Burroughs large systems	J18
19	hardware. Because of hardware differences among large systems	19
20	the hardware overview is divided into five sections as	20
21	follows:	_ 21!
22		22
23	B7800 hardware	23
20 21 22 23 24 25 26 27 28 29 33 31 32 33 33 34 35 33 37 38 39 40 41 42 44 44 45 46 47		_24
25	B7900 hardware	25
26		26
27	B5900 hardware	27
28		28
29	B6900 hardware	29
30		за
31	B5900/B6900 I/O Overview	31
32		32
33		33
34	B7800 HARDWARE OVERVIEW	-67
35	DIOCO HARDWALL OVERVIEW	25
36		36
37		-27
20	GENERAL	20
20	GLINCKAL	38
70		139
74	The Punneyabe P7000 information processing queton is a long-	T ^O
	The Burroughs B7800 information processing system is a large	[4]
44	scale, multiprogramming and multiprocessing computing system.	42
43	The hardware is controlled by the Burroughs Master Control	43
44	Program (MCP) and can be tailored to the processing needs of a	44
45	user by arranging Central Processor Modules (CPM),	_ 45
46	Input/Output Modules (IOM), and Memory Control Modules (MCM)	46
47	on an electronic grid, or exchange (figure 1-1). The MCP can	47
48	be changed dramatically by merely setting or resetting run	_48
48 49 50	time options with simple operator input commands. The system	49
50	may be balanced by other operator instructions (and	
51	dynamically by the MCP) that control the interaction of the	51
52	independently operating CPM's, IOM's, and MCM's. The	7 52
53	throughput of the system as a whole is maximized, but the	53
54	performance of no single element of the system is maximized to	54
55	the neglect or detriment of others.	155
56		56
5 -7	The key to the efficient balanced use of the system is the	57
<u> </u>	Burroughs Master Control Program, a unique executive software	-Ľ⊹
50 51 52 53 54 55 56 57 58 59	buildaging master control Flogram, a unique executive software	51 52 53 54 55 56 57 59
55		23
ou		ЮΟ

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4		p
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14	operating system that automatically makes optimum use of all	<u>4</u>
5	system resources. It is this operating system that makes	5
e	multiprogramming and multiprocessing both functional and	6
[7]	practical by dynamically controlling system resources and	7
8	scheduling jobs in the multiprogramming mix. The MCP allocates	8
9	system resources to meet the needs of the programs introduced	9
10	into the computer. It continually and automatically reassigns	10
111	resources, starts jobs, and monitors their performance.	11 -
12		12
13	Further implications of the modularity and flexibility of the	13
14	system are its expandability (a capacity to add hardware]12
15	modules without reprogramming) and its increased reliability	119
16	(and, thus, increased availability to the user). This	16
17	reliability is achieved by the use of failsoft techniques that	143
18	(error detection and correction, redundancy of power supplies)	118
19	exclude faulty modules from the system and permit processing	19
63	to continue (without reprogramming) with a temporarily reduced	
6.1	configuration.	20
52	Contriguration.	
22		K-2
23		22 23 24
24 25		
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59		P5
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5 6	M M MEMORY M C C CONTROL C	5 6
8 9	M	!/ 8
10		1: 1:
12		1
3 4 5		1
16 17	†	1
9	M	1
21	PERIPHERAL	
5		2
25 26	+	1 1 1 1 1 2 2 2 2 2 2 2 2
27 28	1 PCC ++ +++	2
9 30	*	22 2 3 3
32		3
34 35		3 3 3 3 3
36 37		
38 39		33
10 11 12		3 3 4 4 4
13 14	1 M 1 +=+	4
15 16	Figure 1-1. B7800 Exchange	44
17 18		4
19 50		
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54		5 5 5 5 5 5 5 5 6
56 57		5
58 59		5
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5		E
امًا	SYSTEM CONFIGURATION	្តែ
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l a		,
9	Physically, the components of the system fall into three	Ĭ.
110	categories, as follows:	i ₁ c
111	g	111
12	1. Central components of the system: Central Processor	12
13	Module (CPM), Input/Output Module (IOM), Memory Control	13
14	Module (MCM), Maintenance Diagnostic Processor (MDP), and	114
15	operator's console.	115
16		16
17	2. Standard Burroughs cabinets that contain peripheral	17
18	controls and exchanges, Data Communications Processor	18
19	(DCP), and AC power supplies.	19
20		Żc
21	Peripheral devices that are joined to the central system	21
22	by means of peripheral controls and exchanges. Remote	22
23	devices that are joined to the central system by means of	22 23 24 25 25 27
24	line adapters and the data communications processor.	24
25		25
26	The arrangement of these components into a system and the size	2 6
27	of the system depend on the application and workload of the	27
28	user.	28 29 30
29		29
<u> </u>	WEST REPORT OF THE PROPERTY OF	30
31	HARDWARE REVIEW	31 32 33
32		32
23	Before looking at the MCP it is important for the student to	33
24	have a good understanding of the hardware. Each module on the	54
Red Pos	system will be discussed. The discussion will start with a	86
37	general overview of the system and follow with detailed	37
38	information on each module.	38
39		39
40	Figure 1-2 is a diagram of a system which is composed of	40
41	Central Processor Modules (CPM), Input/Output Modules (IOM),	41
42	Memory Control Modules (MCM) and Data Communication Processors	42
43	(DCP).	43
44		44
45		45
46		46
47		47
10 111 12 13 14 15 16 17 18 19 20 22 23 24 25 26 27 28 29 30 31 32 33 33 40 41 42 43 44 45 46 47 48		48
		49
50		50
E1		51
p2		52
23		53
P4		<u>54</u>
po		5
po 7		D.C.
51 52 53 54 55 56 57 58 59		34 35 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54
60		p
24		lo C

1 2	1 - 5
3 + +	3 + ++
5 SCAN MCM O MCM 1 BUS ++	MCM 7 5
7 ++ DCP ++ 01234567 01234567 8 ++	01234567
9 +-++-+	9
10 ++ + O++ 11	
12 ++ 0 2 13 + M 3	1:
14	1.
16	10
18 ++ ++ 19 ++ DCP ++	11
20 ++ ++-+	19 20 2
21	2: 2: 2: 2.
24 M 3 25 INTERRUPT 4	
26 BUS 3 5	2! 20 2*
28 +-+ 7+	22
30	. 30
32 33	
27	3. 3! 3!
36 P 2 37 M 3	31
38	3333333
40 1 6 41 41 41 41 41 41	40
41 +-+ ;7+	
38 39 40 41 41 42 42 42 43 44 44 45 46 47	4:
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47 48 49	4:
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	The following general comments can be made about the system.	Ë
1 4	The Forfowning general comments can be made about the system.	6
-	 Each module on the system is independently powered. 	7
8		8
9	2. All CPM's and IOM's are connected with an interrupt	_9
10	bus.	10
11	O Thomas is a second to the become to any TON and the	11 1
[]	3. There is a scan bus that connects an IOM and the DCP's on that IOM.	¦ქ
14	DOF S ON THAT TOWN.	14
15	4. The DCP's on an IOM will use the IOM's memory access	15
16	logic.	16
17	·	17
18	5. Each CPM has a time of day clock.	18
19	C. Thomasia and marken alock for the evetom. It has	19
24	There is one master clock for the system. It has it's own power supply.	20
5,1	it's own power suppry.	-53
12 13 14 15 16 17 18 19 20 21 22 22 22 22 23 22 25 26 27 28 29 33 33 33 33 33 40 41 42 43 44 44 46 47	A general discussion of each system component follows. This	22 23 24
24	discussion is intended to give the student an overview of the	24
25	system.	25 26 27
26		26
<u> </u>	MEMORY	-2/
b9	All memory will do single bit error correction and	28 29 30
3d	multi-bit error detection. Access to memory is phased	30
31	(interleaved). All requestors will take advantage of	- 31
32	memory phasing. The IOM will make four word requests to	32
33	an MCM. CPM's will make four or eight word requests to an	33
24	MCM. A planar memory MCM will return at most four words. An IC memory MCM will return at most eight words. Thus,	35
36	the number of words returned for a given request is based	36
37	on the type of memory.	37
38		38
39	CPM	_39
40	The CDM has a SK wand data buffer and a SK word and	312334 33453678 390412344567 4456748
2	The CPM has a 2K word data buffer and a 2K word code buffer. There is a 32 word store queue which will buffer	دما
43	data before it is sent to memory. Thus, memory accesses	43
44	can be grouped into multi-word stores. Also repeated	44
45	stores to an address can be eliminated, only the newest	45
46	data will be written to memory. The local buffers in the	46
48	CPM will attempt to keep memory requests to a minimum and will try to have code and data ready for the execution	48
48 49	unit. Thus, the CPM can overlap fetching of data with	49
1	execution of instructions.	50
51		501 512 534 556 57 59 60
52		52
p3		53
<u> </u>		55
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57		_57
50 51 52 53 54 55 56 57 58 59 60		58
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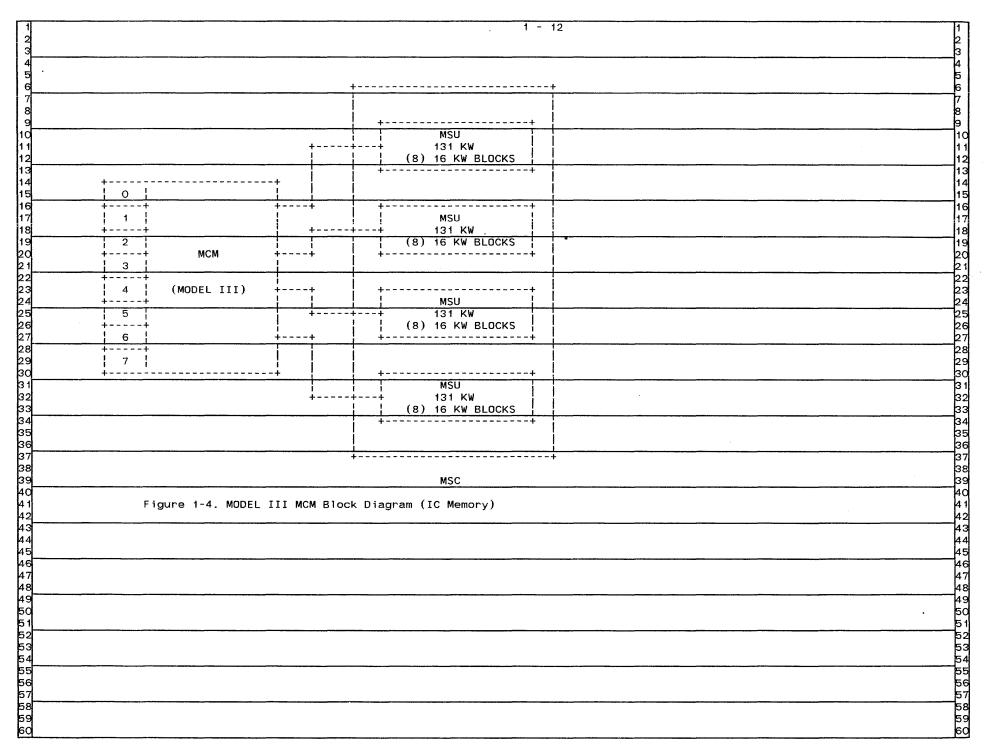
1	1 - 7	
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3		3
4		4
5	IOM	5
🏸	An IOM has up to 00 fixed change by Each change by its	
,	An IOM has up to 28 fixed channels. Each channel has its own (2 four word) buffers. Data is transfered to and	k k
9	from the IOM in 4 word groups. The IOM does it's own	9
10	path checking and can handle a queue of I/O's, not just	10
1 1	one at a time. I/O results are reported in a queue.	1
12	Thus, an IOM need not interrupt a CPM for an I/O finish.	1:
13	The IOM will handle conditional seek logic for disk	[1:
14	packs. The IOM uses MCP generated I/O queues and an I/O	[1:
15	map.	
16 17	MDP	110
	MICT.	ļi:
18 19	Maintenance Diagonistic Processing (MDP) is used for	
20	testing mainframe modules (CPM, IOM and MCM), testing	þ
21	logic cards and PROM programming. MDP can be run online	2
22	with a CPM or with the Maintenance Processor (MP). The MP	2:
23	is a B800 system. Thus, maintenance operations can be run	2: 2: 2:
24	by a CPM or the B800. The MP can be connected to a	
25	datacomm line so remote diagnostics can be done.	<u> </u>
29		2:
<u> </u>	MAXIMUM CONFIGURATION	
29	MAXIMON CON TONATION	29 29 30
30	8 Processors (IOM and CPM)	36
31	8 MCM's (2.5 million words usable)	3
32	255 Units	3: 3:
33	8 DCP's	3:
34	\cdot	3: 3:
35		β:
27		
38		3: 3: 3:
39		3
20 21 22 23 24 25 26 27 28 29 331 332 333 34 35 36 37 37 40 41 42 43 44 44 45		40
41		4
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44		4. 4!
45		<u> </u>
47		4 4 4
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5	The following part of this review will give a more detailed	5
<u> </u>	discussion of the MCM, CPM and IOM. In addition, the MCP	6
4	interface with the IOM will be discussed.	Ľ
a		, B
13	MEMORY	
11		11 1
12		12
13	Memory Control Modules (MCM's) form the interface between a	13
14	requestor (IOM and CPM) and memory. Each requestor is	14
15	connected to each MCM. A system can be configured with up to 8	15
16	MCM's. The MCM is connected to memory storage cabinets which	16
17	contain actual memory storage (planar or IC memory).	17
18		18
19	Figure 1-3 shows two MCMs with planar memory. Each MCM can	[19
21	have up to 2 Memory Storage Cabinets (MSC). Each MSC has 2 Memory Storage Units (MSU). A MSU has 65K words. Planar memory	20
22	will phase at most 4 words. Thus, the maximum number of words	21
23	that can be transfered in one operation is 4 words. Following	23
19 20 21 22 22 22 22 22 22 22 22 22 22 33 31 33 33 33 33 33 33 33 33 44 41 42 43 44 44 44 48	is the amount of time required to transfer 4 words using	54
25	planar memory.	25
26		26
27	1 MSC/MCM 3.75 microseconds (2 word phased)	26 27
28	2 MSC/MCM 2.125 microseconds (4 word phased)	28
29		28 29 30
30	Figure 1-4 is a diagram of a MCM with IC memory. Each MCM can	30
31	have up to 2 Memory Storage Cabinets (MSC). A MSC can have up	31
32	to four Memory Storage Units (MSU). Each MSU has 131K words.	32 33
33	Memory is phased at the MSU level and will phase at most 8 words. Thus, the maximum number of words that can be	33
35	transfered in one operation is 8 words. Following is the	. 94
36	amount of time required to transfer the number of words	36
37	indicated using IC memory.	37
38		· 34 35 36 37 38 39
39	1.87 microseconds for 4 words	39
40	2.37 microseconds for 8 words	40
4 1		4 1 4 2
42	There are two models of MCM's (model II and model III). A	
43	model II MCM can control 256K words of memory. A model III MCM	43 44 45 46 47 48
44	can control 1 million words of memory. This configuration (1	144
43 <u></u>	MCM with 1 million words) would provide only one path to memory and could cause performance problems. Better	45
47	memory and could cause performance problems. Better performance could be achieved by using two model III MCM's	140 147
48	with each MCM controlling 500K words.	Ľ,
49	area, each men controlling cook nor do.	49
	A requestor can address 1 million words. Therefore a	
51	monolithic system can use at most 1 million words. More memory	50 51 52 53 54 55 56 57 58
50 51 52 53 54 55 56 57 58 59	can be configured but would not be usable. Any additional	52
53	memory could be used if the system was split into two systems.	53
54	A system running tightly coupled can use up to 2 million words	54
55	(2.5 million words using model III MCM's). This tightly	55
56 57	coupled configuration (2.5 million words) would require 5	56
2/	model III MCM's, 4 CPM's and 4 IOM's.	
50 50	•	pa Sa
60		. 60
		100

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4		
5 6	Words stored in memory are 60 bits as follows:	5 6
7	8 bits for error correction and detection.	7
8	This allows single bit error correction and	8
]	multi-bit error detection.	9,
119	52 data bits are transfered to and from requestor.	
12	48 data	li:
13	3 tag	1:
14	1 parity	11.
15		15
16	way .	16
17	The MCM is responsible for:	11 11
18	Buffering multi word transfers to and from a requestor	
bd	(memory phasing).	20
21	(memery price may)	19 20 2
19 20 21 22 23 24 25 26 27 28 29 33 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Locking out MCM's to requestors. This is used when the	
23	system is split or running tightly coupled. Requestors	2:
24	are locked out by setting requestor inhibit switches on	2
25	the MCM. These switches can be set by the operator or the	[2]
20	MCP.	2°
28	Controlling requestor priority.	
29	sent of the requester product of the region	29
30	Doing error correction and detection.	30
31		3
32	Broadcasting which addresses the MCM controls. The	3:
33	address range switches (UPPER and LOWER) specify the	
25	memory addresses a MCM spans. These switches can be set by the operator or MCP. The register contains the six	81 D
88	most significant bits of the address that is controlled	30
37	by this MCM.	3
38		38
39	Maintaining the MSU status register which specifies which	3:
40	MSU's are available. These switches can be set by the	140
41	operator or MCP.	4
[4	One should note a requestor (not the MCM) must keep track of	
44	how many words are received from a memory request. If all	4.
45	words that were requested were not received a request for the	4:
46	remaining words must be made. For example, if a request is	4
47	made for 8 words from an MCM that is only 4 way phased, only 4	[4]
48	words are returned. The requestor must change the word count	2: 2: 2: 2: 2: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4:
49	and memory address in the MCM control word and make the request to the MCM again.	4
54 51	request to the mom again.	5°
52		
5 3		, <u> </u>
54		5
55		5
56		5
57		5
p8		E D
50 51 52 53 54 55 55 56 57 58		5 5 5 5 5 5 5 5 6
<u> </u>		

1 2						1 - 10	 	1 2
3 4 5	As an examp	ole of how the	these switch ows: (see fi	es are set, a gure 1-3)	assume a sys	tem		3 4 5
6 7 8 9	1 IOM	(MCM 1 and (IOM 1) (CPM 5)	MCM 4) 4	MSU each (pla	anar MSU)			
0 1 2	The switche	es should be	e set as fol	lows:				11
3	MCM	LOWER	UPPER	INHIBIT	MSU STATUS			1 1 1
5 6 7	1 4	000000 010000	001111 011111	11011101 11011101	1111			1
9					and the second s			 1 1 2 2
2 3 4								2 2 2 2 2 2 2
5 6 7							 	2
8 9								 2. 2. 3. 3.
32					<u>i.</u>		 	 3
5 16								 3 3 3 3
88 89 40							 •	3 3 4
12					······································			 4 4 4
14 15 16							 	 4 4 4 4
3 4 4 5 6 2 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9								 4 4 4
50 51 52							 	 5 5 5
50 51 52 53 54 55 56 57 58 59				···				5 5 5 5 5 5 5 5 6
56 57 58	•							 5 5 5
59 50								5 6

1 2		1 - 11	2
3 4			3 4
5			5
7			7
9	1 5		9 9
10		MODEL II MCMS (PLANAR MEMORY)	10
12 13	01234567		12 13
		++ 	14
16	+	+ MSU MSU MSU	15 16 17
17 18		++	17 18
19 20	, 2	MCM	19 20 21
21	4	1	
1156789012345678901234567890123444444445555555555560	++ 5		23
24 25	7	++ MSU MSU MSU	2 2 3 4 5 6 7 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
26 27		++ ++ ++	26 27
28		MSC	28
βď			30
32		++	31 32
33 34	†	+ MSU MSU MSU	_ 33 34
35	+ 1 2		35
37	3	MCM MSC	37
38 39	4 ++ 5	4 ++	38
40 41	6 7		41
42	<u> </u>	+ 65 KW 65 KW	42
44		·	44
45 46		MSC	46
47 48	Figure 1-3. MCM Configu	guration and Planar Memory	48
49			49
<u> </u>			_ <u></u> 5
p2 53			53 53
54 55			_54 55
56			56
58			5
59 60			59 60



-11		
1	1 - 13	11
4		2
3		
4		Ľ
7		Ĭ.
9	СРМ	
7		[2
8		Į.
9	The CPM is composed of several independent asynchronous units.	
o	It is this independence that allows data fetches to be] 1
1	overlapped with instruction execution. The basic functions of	ľ
2	these units in the CPM are described in the following	· · · · · · · · · · · · · · · · · · ·
3	paragraphs (see figure 1-5).	
4		ľ
5	MEMORY ACCESS UNIT (MAU):	
16		
17	The memory access unit provides the memory interface for	•
18	the CPM. The MAU is capable of doing simultaneous	į.
9	fetches and stores to memory as long as the addresses are	
2d	not in the same MCM.	Į.
1	The second state of the second states of the second	
<u></u>	PROGRAM CONTROL UNIT (PCU):	
3	The state of the s	ļ.
12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 22 23 33 34 35 36 37 38 38 38 38 38 40 41 41 42 43 44 44 45 47 48	The Program Control Unit (PCU) interprets object code and	
	builds micro operators for the execution unit. These	
2		
17	micro operators are placed in a queue for the execution	į.
:::	unit. The PCU will pre process code doing operations such	
20	as taking unconditional branches, generating absolute	2
: ¥	addresses from relative addresses and operator	
9	concatenation. That is, join more than one instruction	
3 1	into a single micro op.	3
32		F
3	In addition, the PCU is responsible for allocation of	
14	registers in the Central Data Buffers (CDB).	ļ (
15		ļ.
36	EXECUTION UNIT (EU):	3 3 3
37		
38	The Execution Unit (EU) performs the actual operations.	
9	These operators come from a queue built by the PCU.	
ld		4
11	The EU includes logic for short arithmetics, add	<u> </u>
12	operations less than 20 bits and multiply operations with	4
13	results less than 16 bits.	4
4		L.
5	DATA REFERENCE UNIT (DRU):	
16		
17	The Data Reference Unit (DRU) fetches data from	
18	associative memory or main memory so it can be used by	
<u></u>	the EU.	
19	cro 20.	l-
<u>'</u>	STORE OFFICE (SO.).	
<u>'</u>	STORE QUEUE (SQ):	
24	All the state of t	<u> </u>
29	All stores to main memory go thru the store queue. The	· ·
4	store queue will try to group adjacent words into a multi	
5	word write. In addition, it will test for repeated stores	ľ
; 6	to the same address. This will help cut down on memory	F
57	traffic.	
58		
50 51 52 53 54 55 56 57 58 59		
60		

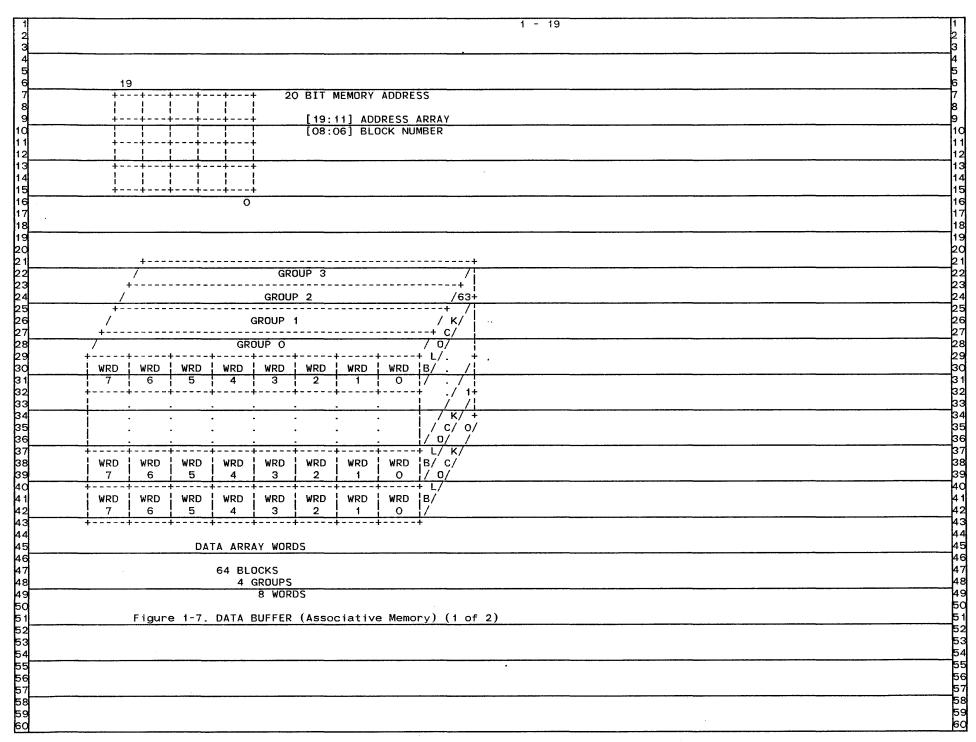
1 2	1 - 14	
5	LOCAL MEMORY (ASSOCIATIVE MEMORY):	
7 3 9	The program buffer will hold up to 2K words of object code in the CPM. The data buffer will hold up to 2K words of data and control information.	2
) 1 2	. CENTRAL DATA BUFFER (CDB):	
3 4	The central data buffer (64 words) acts as storage and an exchange between CPM units.	
5 6 7	INTERRUPT BUS:	
8 <u> </u>	Module to module interrupt line used to interrupt other CPM's and IOM's.	
0 1 2	The CPM will do internal residue, parity and continuity checking. If errors are detected a CPM fail word is generated	
2 3 4	checking. It errors are detected a CPM fail word is generated and an interrupt occurs. The CPM is also capable of instruction retry.	
3 4 5 6 7 8 9 0 0 1 1 2 2 3 4 5 6 7 7 8 9 9 0 0	The CPM must read a register (62) every 8 to 16 seconds. If this is not done an EGG TIMER interrupt is generated. This	
8 9 0	will prevent the CPM from looping in control state.	
1 2		
4 5		
o 7 8		
9 0 1		
2 3 4 5 6		
5		
7 8		
9 0 1		
0 1 2 3 4 5 6 6 7 8		
5		
7 8		
9		

न				1 -	15	14
2				1 -	15	2
3						 _3
5						4
6	++	++		++		6
7	0	orutnu.				7
9	++ ! 1 !	CENTRAL DATA		<u> </u>		g
10	++	BUFFER	EXECUTION	PROGRAM		 10
11	2		UNIT	CONTROL		111
13	#+ MEMORY	+		UNIT		- 12 13
14	++ ACCESS	DATA		!		14
15 16	4 ++ UNIT	REFERENCE +		* · · · · · !		15
17	5	ONIT		IVE MEMORY		14 15 16
18	++	+		*		 18
19	6	STORE QUEUE		* CODE BUFFER * 2K WORDS		19
20 21	7 1	JOKE GOLDE	3	*		18 19 20 21
22	++	+		+		22
$\frac{23}{24}$		Figure 1-5 C	PM Block Diagram			23
25		rigare ro. c	THE BICCK Diagram			25
26						26
58						-b8
29						29
βď						30
32						32
зз			,			_ 33
34						34
36	•					36
23 24 25 26 27 28 29 30 33 33 35 36 37 38 39						37
38						38
4d						 40
41						4 1
42 43		· · · · · · · · · · · · · · · · · · ·				-42 43
44						44
45	•	- · · · · · · · · · · · · · · · · · · ·				45
46 47						47
48						2 2 3 4 5 5 6 7 8 9 C 1 4 2 3 4 4 5 6 7 8 9 C 1 4 4 4 5 6 7 8
49						
51						51
50 51 53 55 55 55 55 56 60						51 52 53 54 55 56 56 56
53						53
55						-F:
56						56
57						 - 57 - 59
59					•	55
60						60

T-1	1 - 16	11
2		½
3		
5 6	The following discussion on associative memory is based on the B7800 CPM.	5 6
7 8	Figure 1-6 is a diagram of how the code buffer is set up.	7 8
10	Three data structures are used. These structures are the address array, priority array and the actual code buffers.	10
12		12
13 14 15	To access a word in this part of associative memory bits [7:6] of the 20 bit address are used to get the block number. This block number is used to index the address	13 14
16 17	array. By comparing bits [19:12] of the address with the eight groups in the block you can determine if the word	16 17
18	you are looking for is present.	18
19 20 21	Assuming the address is present, bit [0:1] selects the EVEN or ODD buffers. The group number (determined in the	20 21
22 23	address array) is used to choose a 128 word buffer. Bits [7:7] of the address are used to index into the 128	22 23
24	words.	24
26 27	The priority array has a three bit entry for each of the 64 blocks. It contains the next group number to be	25 26 27
22 23 24 25 26 27 28 29 30	overlayed. When that group is overlayed the array value is incremented by one. When seven (111) is reached it will go back to zero (000).	28 29 30
31	will go back to zero (000).	31
32 33		32 33
34 35 36 37 38 39		34 35 36
36 37		37
38 39		38 39
40 41 42		40
42 43 44 45 46 47		43 44
45		45
46 47 48		46 47 48
49		49
51 52		51 52
53 54		53 54
50 51 52 53 54 55 56 57 58 59		50 51 52 53 54 55 56 57 58
57 58		57 58
59 60		59 60

1	1 - 17	I1
2	, ,,	2
3 4		3 4
5 6		5
7		
8		8
9 10		10
1 1	++++ BLOCKS	1.1
13	+++++	1:
12 13 14 15 16 17		14
16	0 0 1 1 1 1 1 1	16
17	+++++++ 20 BIT ADDRESS 7 6 5 4 3 2 1 0	17
19	20 BIT ADDRESS 7 6 5 4 3 2 1 0 GROUPS	19
20	[19:12] ADDRESS ARRAY	20
22	[07:06] BLOCK NUMBER ADDRESS ARRAY [00:01] SELECT BIT	2:
23	(ODD OR EVEN) 64 BLOCKS [O7:O7] USED TO INDEX INTO 8 GROUPS	23
25 	THE 128 WORD BUFFERS 12 BIT ADDRESS	25
26 27	2 BIT RESIDUE	26
28	·	25
29	++ 7	29 30
31 31	/ 120 WORDS / 120 WORDS 63	3+
32		32
34	GROUP : : : : : : : : : : : : : : : : : : :	34
35 36	1 128 WORDS 1 128 WORDS BLOCK .	35
37	+	37
38 39	O	38
40	EVEN ODD ++	40
18 19 20 21 22 22 24 25 26 27 28 29 33 33 33 33 33 33 40 41 42 43 44 45 46 47 48 49	CODE BUFFERS ++	41 41
43		4:
44 45	8 GROUPS PRIORITY 128 WORDS ARRAY	44 45
46	48 BITS CODE (3 BITS)	46
47 48	6 BITS PARITY (1 PER SYLLABLE) 1 BIT OVERALL PARITY	47
49	2 BITS ERROR	49
50 51		50 5
50 51 52 53 54 55 56 57 58 59	Figure 1-6. CODE BUFFER (Associative Memory)	5
53 54		53 54
55 		5!
56 57		56
58		50 51 51 51 51 51 51 51 51
59 60		59
<u> </u>		0

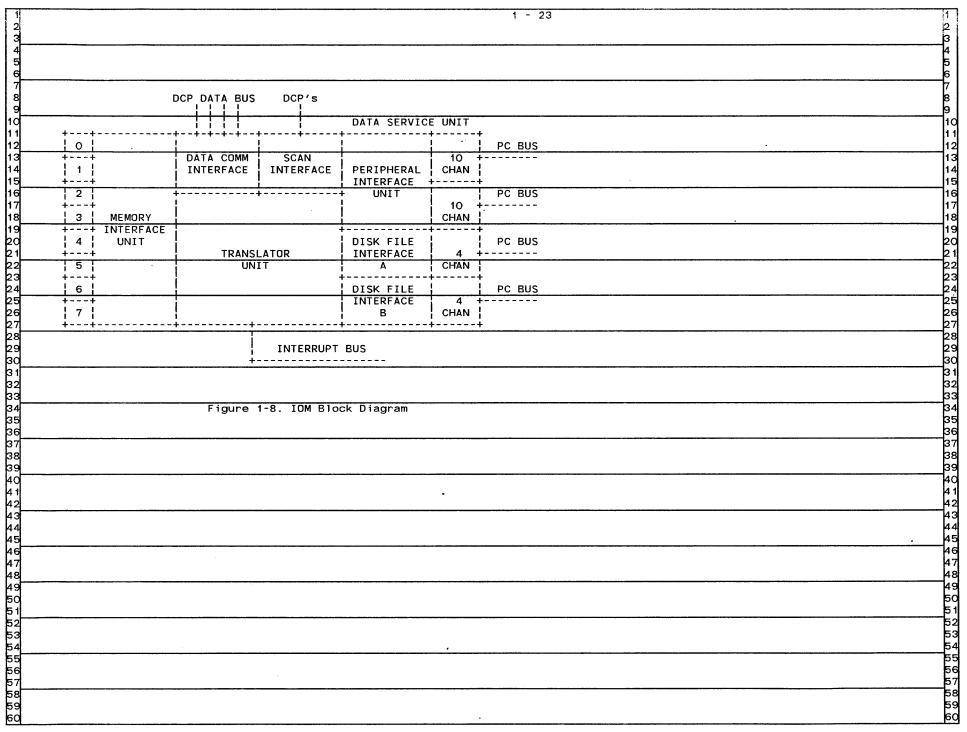
1	1 - 18	11 1
2	,	2
3		3
4		4
5	Figure 1-7 is a diagram of how the data buffer is set up.	
9	Again three data structures are used. These include the	6
7	address array, the priority array and the data array.	[/
ğ	To account a world in this most of accounting moment, bits	· 8
.3	To access a word in this part of associative memory bits [8:6] of the 20 bit address are used to get the block	
19	number. As with the code buffer, this block is indexed	
13	in the address array. Bits [19:11] of the address are	112
រុង	compared with the four groups to see if the address is	13
14	present.	114
15	p. eserc.	15
	Assuming the address is present, the block number and the	16
16 17	group number are used to locate the proper eight word	17
	group in the data array. Bits [2:3] of the address are	18
19	used to get the proper word from the eight word group.	19
2 d		20
21	The priority array has 64 entries, 5 bits each. Two bits	21
18	indicate the 'oldest' group in the block. Two bits	22 23
23	indicate the 'second oldest' group in the block. The	23
24	fifth bit determines the order of the other two groups.	24
25	The fifth bit is set if the 'newest' group (number) has a	25 26 27
26	greater value than the 'second newest' group (number).	26
27		27
28	The priority array is updated whenever new data is	28 29 30
29	written to the data buffer and also whenever a word local	20 20
30	to the buffer is accessed. If new data is to be loaded, the 'oldest' group entry is overlayed. If a word already	31
32	local in the buffer is accessed it is moved to the	B ₂
33	'newest' position in the priority array.	32 33
34	nonce poore, or an openior ray.	34 35 36
35		35
36		36
37		37
38		38
39	•	39
40		37 38 39 40
4 1		[41
42		42
43		43
44		44
45		45
40		45 46 47 48
47 48		47
48 49		
		F.C
51		50 51
50 51 52 53 54 55 56 57 58 59 60		52
53		52 53 54
54		54
55		55
56		56
57		57
58		58
59		55 56 57 58 59
6 0		jec



1	• 1 - 20	11
2		2
3_	·	В
4	+	4
5	1 BIT 2 BIT 63 63	5
<u> </u> 9_	++	6
		7
۱ă	BLOCKS	E
1,3-	++	۲,
114	1 BIT 2 BIT 1	1,
12	1 · C. · · · · · · · · · · · · · · · · ·	12
13	1 BIT 2 BIT 2 BIT 0 O	13
14		
15	3 2 1 0 PRIORITY ARRAY GROUPS	15
16	PRIORITY ARRAY GROUPS	116
17		17
18	64 ENTRIES ADDRESS ARRAY	118
19	2 BITS = OLDEST ENTRY	119
24	2 BITS = 2ND OLDEST 64 BLOCKS	20
20 21 22	1 BIT = SET IF 4 GROUPS 'NEWEST' ENTRY > 11 BIT ADDRESS	145 167 167 167 167 167 167 167 167 167 167
23	'SECOND NEWEST' 2 BIT RESIDUE	6
23 24	ENTRY 2 BIT RESIDUE	54
25		6:
26		26
27		27
26 27 28 29 30 31		28
29	Figure 1-7. DATA BUFFER (Associative Memory) (2 of 2)	29
RQ_		βC
	\cdot	31
32		32
133		63
25		25
36		36
37		3 7
38		38
39		39
40		40
41		4 1
42		42
43		43
44		44
32 33 34 35 36 37 40 41 42 43 44 45 46		45
47		
48		45
48 9 5 5 5 5 5 5 5 5 6 5 6 6 6 6 6 6 6 6 6		49
50		
51		5
52		5525555556
53		53
<u> 54</u>		54
55		5
56		Þξ
		ρ.
50		50
60		6
껕		P

1	1 - 21	1
2		2
3		3
5		F 5
6	IOM	6
7		7
8	The IDM serves as a buffer and control unit for all I/O	8
1d	operations. The IOM is composed of several asynchronous units.	
11	These units can be seen in figure 1-8 and are described in the	1.
12	following paragraphs.	12
8 9 10 11 11 11 12 113 114 115 116 117 118 119 120 121 122 122 122 123 124 125 126 127 128 129 130 131 132 133 133 133 133 133 133 133 133	MEMORY INTERFACE UNIT	13
15		15
16	The memory interface unit provides memory interface for	16
18	the IOM. It buffers and controls all IOM memory access. The memory interface unit controls access priority. The	17
19	priority is:	
20		20
21	DSU - Data Service Unit ,	<u>k</u> :
24 23	PCI DFIA	22 23 24
24	DFIB	2
25	Lowest number channel in each unit	
26	has highest priority	26
28	Data comm interface unit Translator	25 26 27 28 29
29	ii diista toi	29
30	TRANSLATOR UNIT	30
31		31 32 33
32	The translator is the control unit of the . ${\sf IOM}$. It fetches commands from memory and starts ${\sf I/O}$ operations.	82
34	The translator sends interrupts for I/O finish and ODT	32
35	status change. It holds 20 bit addresses for Home	35
36	Address (HA), Unit Table (UT), Queue Head (QH) and Status	34 35 36 37
37	Queue (SQ). In addition, the translator contains channel status information, peripheral status and controls	37
39	conditional I/O operations.	38
40		40
41	DATACOMM INTERFACE UNIT	4 1
42	The datacomm interface unit transfers information between	42
44	the IOM and DCP. Thus, it provides the memory interface	4
45	for the DCP.	44 45
46	COAN THITEDEROF UNIT	4 <i>6</i>
47	SCAN INTERFACE UNIT	47 48
49	The scan interface is for scan type operations between	49
50	the IOM and DCP's connected to the IOM.	50
51	NIVI SERVICE INIV	5
52 52	DATA SERVICE UNIT	50 51 52 53 54 55 56 57 58
54	The data service unit is made up of peripheral interface	ра 54
55	unit, Disk File Interface "A" (DFIA), and Disk File	55
56	Interface "B" (DFIB). It forms the buffer between memory	56
57	and peripherals. There are two (2) four word buffers on	57
୦୪ 59	each channel which allows the IOM to take advantage of 4	
60		16 (

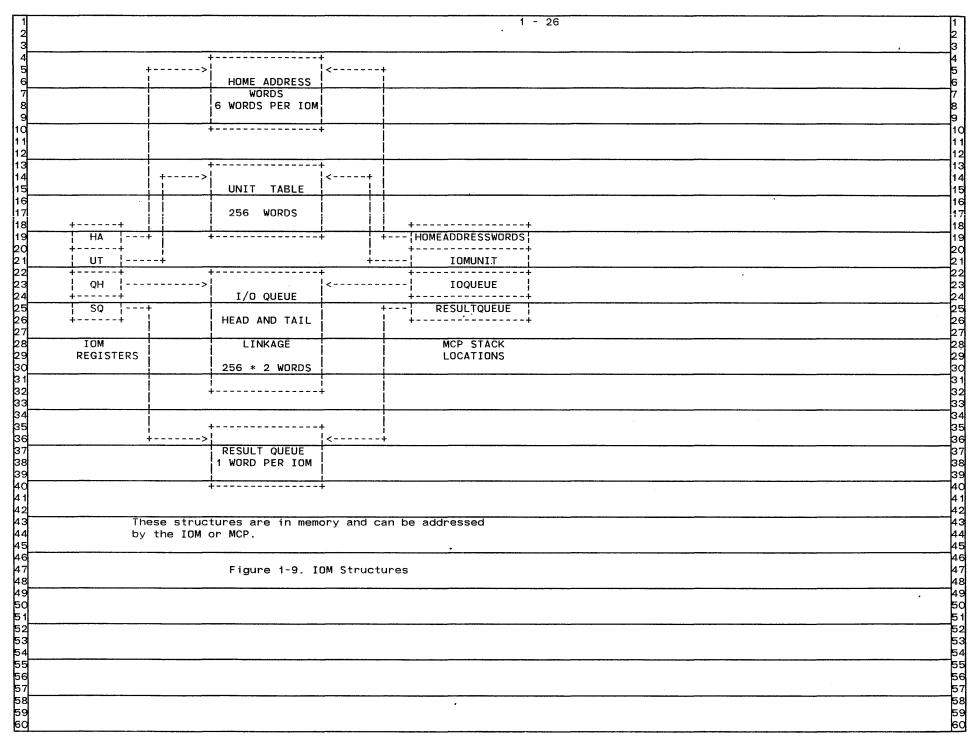
2	1 - 22	2
3	word phased access to memory.	
5		5
6	CONNECTED TO DATA SERVICE UNIT	6
8	A Peripheral Control (PC) bus is used to connect the IOM	8
9 10	to the Peripheral Control Cabinet (PCC). The PCC contains peripheral controls. Data is transferred to the	— 9 10
11	IOM in one or two byte groups. The PCC is independently	1 1
12 13	powered or powered by B6700 style AC mods.	12 13
14		14
15 16		15 16
17		17
18 19		18 19
20		20 21
22		
23 24		23 24
25		223 245 256 277 288 299 31 32 343 356 377 388 390 411 423 444 456 4748
26 27		26 27
28		28
30		30
31 32 33		31
33		33
34 35		34 35
36		36
37 38		38
39		39
41		41
42 43		—42 43
34 35 36 37 38 39 44 43 44 45 47 48		44
45 46		—45 46
47		47
48 49		49 50
50		50 51
52		52
53 5⊿		53 54
51 52 54 55 56 57		51 52 53 54 56 57 58
56 57		56 57
58 59		58
59		59



	1 01	
1	1 - 24	
1		

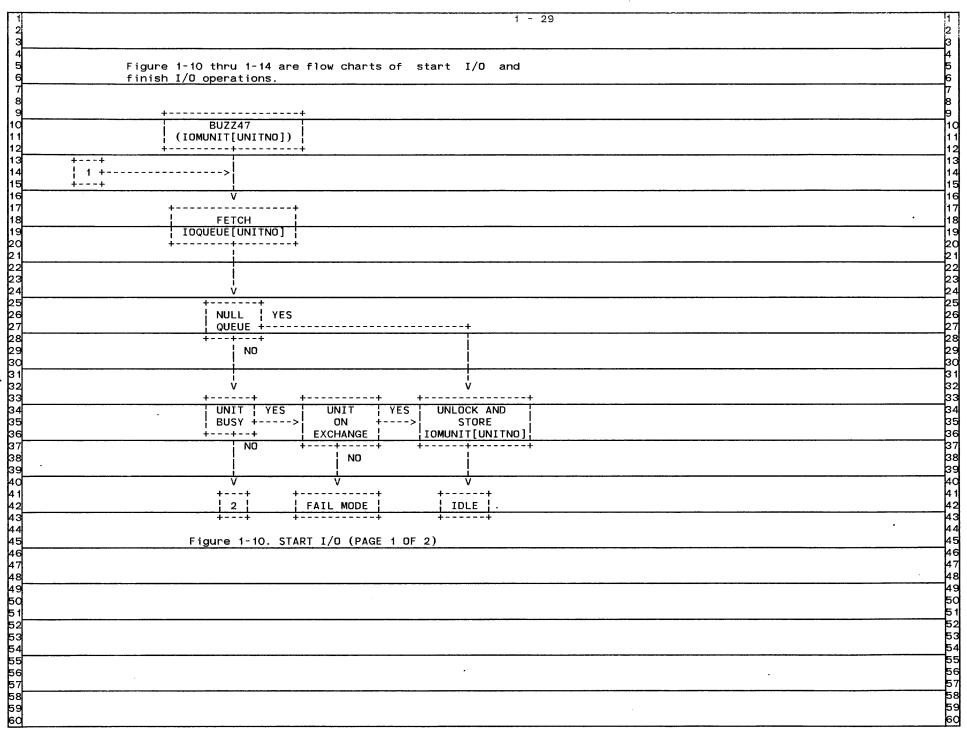
	The IOM and MCP share several data structures. These	
	structures are located in main memory and are shown in figure	
	1-9. The following paragraphs describe these structures.	
İ	I/O QUEUE:	
	All I/O'S for a unit are linked to each other. The first	
	I/O Control Block (IOCB) is pointed to by the I/O queue	
	head word. The last IOCB is pointed to by the I/O queue	
l	tail word. The linkage from IOCB to IOCB is thru a link	
	word in the IOCB. All $ar{ ext{IOM}}$'s will use the same I/O $$ queue.	
	A queue for a unit is started when the first IOCB is	
	placed in the I/O queue. The IOM will process the next	
	IOCB in the queue without MCP intervention. Thus, a queue	
	is only started when a IOCB is placed in a empty queue.	
ļ		
İ	RESULT QUEUE:	
	When an I/O has finished, the IOM will place the IOCB $$ in	
1	the result queue. Each IOM has it's own result queue.	
	All I/O operations done by an IOM are placed in the same	
	result queue.	·
	The operator can decide when it wants the MCP to be	
	interrupted by the IOM. This interrupt will cause the MCP	
1	to look at the result queue. The system can be set up	
	(see SBP ODT command) so the IOM will interrupt the MCP	
1	when:	
*		
Į.	An I/O queue is empty or CPM is idle	
\$	Each I/O finishes	
	A task is waiting on an I/O or CPM is idle	
1	The CPM is idle	
şi 💮		
	UNIT TABLE:	
1		
	The unit table contains unit information used by the IOM	
<u>'</u>	and MCP. This information includes ring walk	
1	information, number of channels on an exchange and a lock	
	bit for the unit table and I/O queue.	
<u></u>		
1	HOME ADDRESS:	
]	The bound of the control of the state of the	
	The home address words are used by the MCP to give the	
]	IOM commands. The types of commands to an IOM include	
1	load registers (HA, UT, QH, SQ), start I/O, interrogate	
J	peripheral status and scan out DCP (INITIALIZE, HALT and	
1	ATTENTION NEEDED). There are 6 home address words and are	
	defined as follows:	
1		
1		
		
2 3 4 1 5 5 7		
]		
1		

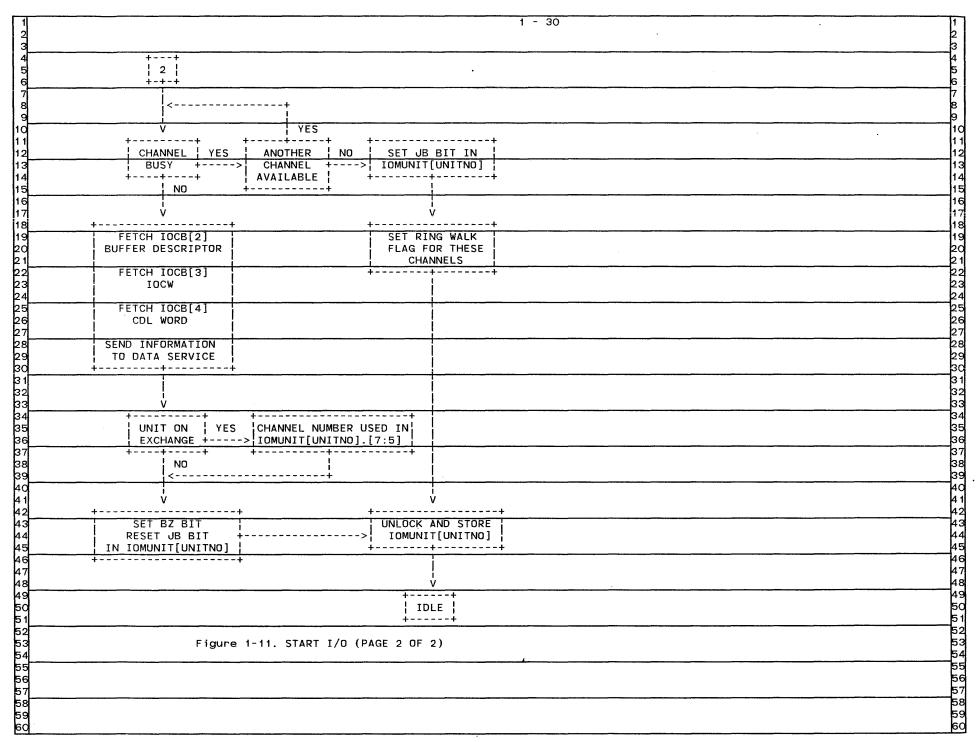
1 2	1 - 25	1
3	HA[O]	3
5	Command to IOM. HA[1]	5
7	Special information (peripheral status).	7
9	HA[2] HALOCKWORD. Buzzed by MCP to get	9
10 1 1	control of Home Address words. HA[3]	111
12 13	Not used. HA[4]	12
14	IOM fail word, or hard H/L result descriptor.	14
15 16 17	HA[5] Sync I/O result descriptor.	16
18	Sync 1/6 resurt descriptor.]18
20		19 20
22		22
23 24		23 24
25 26		25 26 27
27 28		
29 29		28 29 30
31		31 32
18		33
35 56		35
37		7 37
38 39 40 41		38
40 41		41
42 43 44 45 46		43
44 45		44
46 47		46 47 48
48 49	· · · · · · · · · · · · · · · · · · ·	48
lsd.		150
52 52		5 5 5 5 5 5 5 5 6 C
51 52 53 54 55 56 57 58 59		52
56		56
57 58		57 58
59 60		59

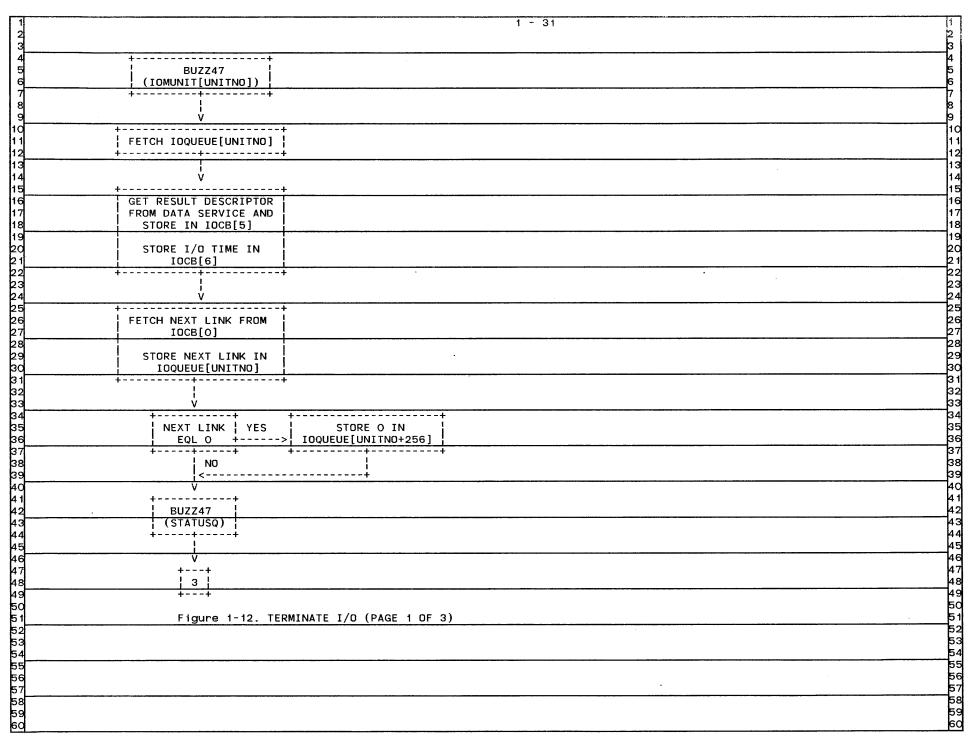


1	. 1 - 27	1
2		½
3		3
4		4
5	IOCB's	5
6		6
7	An I/O operation is defined by an IOCB (18 words). The	17
8	first 7 words are used by the IOM (hardware) and the MCP.	
9	The other words are used by the MCP only. The words in	9
10	an IOCB used by hardware are:	10
1 1		l _i `
12	O IOMNEXTLINK.	14.
13	Link to next IOCB.	
14	1 IOMSIDELINK.	141
15	Not used by hardware.	
16	2 IOMAREADESC.	
17		
	Buffer descriptor, address and length.	P.
18	3 IOMIOCW.	1
19	IOCW for I/O.]19
29	4 IOMCDL.	po
21	CDL built by software for IOM.	
20 21 22 23 24 25 26 27 28 23 33 31 33 33 33 44 33 40 41 42 44 44 44 45	5 PHYSICALRD.	p:
23	Hardware result descriptor.	þ :
24	6 IOMTIMECELL.	
25	Channel busy time.	2:
26		20
27	The other words of an IOCB can be found in the MCP. These	½ '
28	words include I/O mask, reference to event, reference to	2:
29	FIB and other information.	<u>b</u> s
зd		29 29 30
31	I/O FLOW	3
32		3:
33	The flow of an IOCB will be traced. This flow will start	3:
34	with the MCP building an IOCB. The required words are	
35	placed in the IOCB. The MCP will link the IOCB into the	Si Si
38	proper I/O queue. The following procedure is used:	30
37	proper 1/6 queue. The forfowing procedure 13 daed.	3,
20	BUZZ47(IOMUNIT[UNITNO]) % LOCK UNIT TABLE AND I/O QUEUE	
30		33
<u> </u>	GET TAIL WORD FOR UNIT	
44	IF THE TAIL WORD IS O THEN	40
4 1	PLACE ADDRESS OF THIS IOCB IN TAIL AND	[4]
44	HEAD WORD FOR THE QUEUE	4:
4.3	ELSE	<u> </u>
44	PLACE THE ADDRESS OF THIS IOCB IN THE IOMNEXTLINK	 4 -
45	WORD OF THE LAST IOCB IN THE QUEUE.	4
	PLACE THE ADDRESS OF THIS IOCB IN THE	4, 4
47	TAIL WORD FOR THE QUEUE.	, 4 '
48	UNLOCK AND STORE IOMUNIT[UNITNO]	4
49	IF THIS I/O IS THE FIRST IOCB IN THE QUEUE THEN	4:
1	BUZZ(HALOCKWORD)	50
51	BE SURE LAST COMMAND IS CLEAR	55 55 55 55 55 55 55 56
52	STORE A START I/O COMMAND IN HA[O]	5
53	INTERRUPT THE IOM	ā
54	UNLOCK THE HALOCKWORD	ls ls
55		<u> </u>
56		·
57	Before we look at what the IOM does when it is	Ĕ
58	interrupted a few comments need to be made about the	
50 51 53 55 55 55 56 57 58 59		Ľ
ed ed		2
<u> </u>		о

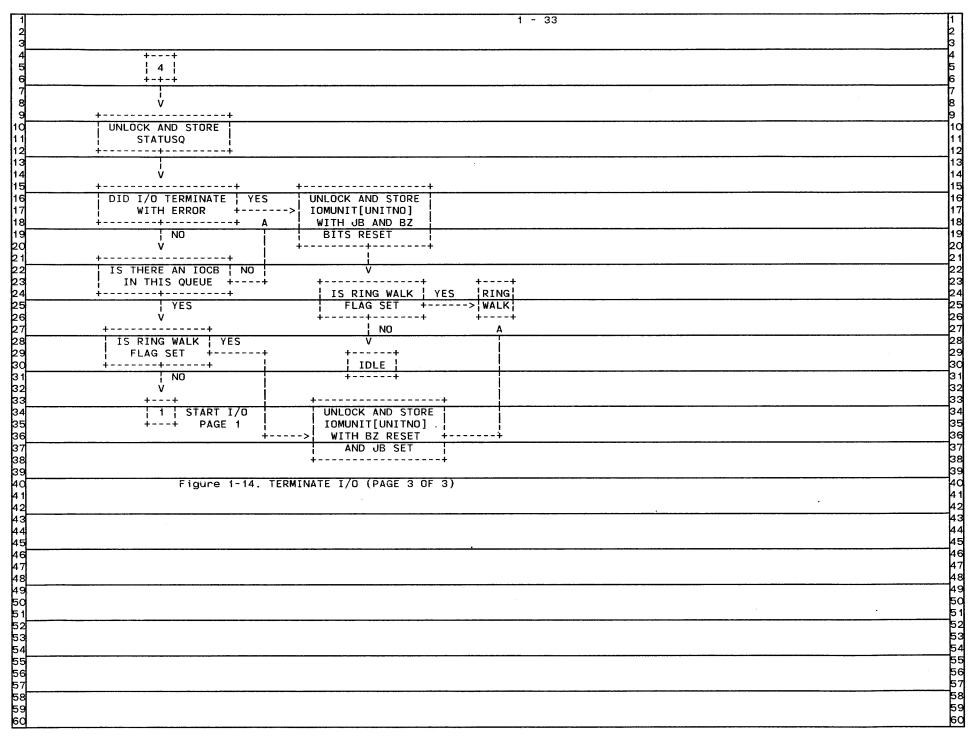
1	1 - 28	
2		l' 2
3		3
4	start I/O process.	4
9	Bit 47 of a home address command is called the	5 6
7	lock bit. This bit must be on for all IOM	17
8	commands.	8
9		9
10	All IOM's that have a path to the unit will be	1
1 1	interrupted. Only one IOM will do the I/O	· 1
12	operation. The MCP maintains information of	1
13	which IOM's to interrupt for a given unit.	<u> 1</u>
14 15	The IOM will need (MIO) then need it. Defens	[1
15	The IOM will read HA[0] then zero it. Before a CPM places a new command in HA[0] it will	11
16 17	make sure the IOM has cleared the last	1
18	command. If the last command has not been	1
19	cleared the CPM will wait .5 sec. If the	1
19 20 21 21 22 23 24 25 26 27 28 29 33 30 33 31 32 33 34 35 36 37	command is still not clear the CPM will	2
2 1	interrupt the IOM again. If the command is	2
22	still not clear after .5 sec the IOM will be	
23	removed from the system.	2 2 2
24		2
25	Once ring walk is entered the IOM will follow	2 2 2
26	the next unit field of the unit table word	2
27	looking for a unit with the JB bit on. This bit indicates the I/O was not done because	
28	there was no channel available at the time.	2 2 3
2 3 3 0	Ring walk will give all units on an exchange	Ę
3 1	equal priority.	3
32	1	E S
33	The IOM has a thruput scheduler for I/O's	3
34	which are marked by the MCP (DISK, PACK and	3
35	TAPE). A count of the I/O's in process will be	3
36	kept and compared against a maximum value (set	3 3 3
37	by F.E.). When the maximum value is reached	3
38	the IOM will queue requests to start more	3
39	I/O's. This will only be done for units in the	3
4 1	PCI. The queue size for start I/O commands is 16. If the queue is exceeded, the IOM will not	4 4
42	respond to a start I/O command.	Ĺ l
43	. supports to a dear to 1/0 domination	 4
44	Fail IOCB's will be generated by the IOM if an	<u> </u>
45	error is detected by the IOM which is not	4
44 45 46 47	associated with a unit. The IOM will use	4 4 4 4 4
47	IOCB's in unit O. It will place a fail word	4
48	in the PHYSICALRD word of the IOCB and place	4
49	it in the result queue. The CPM will be	<u> </u>
<u> </u>	interrupted.	
2]		
52	An I/O error to a unit will stop processing on that unit.	
54	that wifft.	
55		
56		
57		
58		
49 50 51 52 53 54 55 56 57 58 59		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
ad		6







```
1 - 32
    +---+
     3 |
LINK IOCB INTO
TAIL OF STATUSQ
DID I/O TERMINATE YES
                             SET BIT O (ET)
  WITH ERROR
                           IN IOMUNIT[UNITNO]
IS BIT 40 (INT) OF YES
                           RESET BIT 40
  STATUSQ SET
                           IN STATUSQ
      NO
      V
IS BIT 45 (C) OF YES
   STATUSQ SET
                            INTERRUPT CPM
IS BIT 40 (INT) OF YES
                            DESIGNATED BY
                             BITS [44:3]
IOCB IOLINKAGE SET +---->
                               STATUSQ
         Figure 1-13. TERMINATE I/O (PAGE 2 OF 3)
```



1	1 - 34	וַן
4		<u>ل</u> ا
3		3
4		4
3	PZGOO TICHTI V COURLED EVETENS	P P
3	B7800 TIGHTLY COUPLED SYSTEMS	
4		l'a
្ន	The primary week of tightly counting to be perfectly	E .
.3	The primary goal of tightly coupling is to achieve a	
10	multiprocessor system with more addressable memory than could	
11	be configured for a monolithic multiprocessor system. The 20	
12	bit address field limits a monolithic system to one million	
13	words (6 MB) of addressable memory. A Tightly Coupled (TC)	[]
14 15	system, by making certain address ranges visible only to	114
13	certain requestors, allows those ranges to be duplicated, and	
16 17	expands the total amount of memory accessible to the TC system to more than one million words. The B7800 implementation of	11.
1 /		Ľ.
13	Tightly Coupled Systems was accomplished under the restriction that it require absolutely no special hardware changes.	
19	that it require absolutely no special hardware changes.	
51	ADOLITECTIBE	Ę'
5.1	ARCHITECTURE	
22	B7800 architecture dictated that a TC system be initialized	2:
23	(and run), as would any other multiprocessor system, from a	ዜ :
55	single Halt/Load unit. A B7800 Tightly Coupled system has its	Ki
25	low address memory visible to all on-line requestors; the	2: 2: 2:
20	MCM(s) comprising this shared memory constitute the SHARED or	<u>ل</u> م ا
28	GLOBAL BOX. Above the highest SHARED mod is local memory:	
20	those MCMs which are visible only to specific requestors. A	25 25 30
30	local BOX on a B7800 TC system consists of one or more CPMs,	, b
24	one or more IOMs and the high address MCM(s).	
23	one of more toms and the might address months).	3
33	An important configuration restriction imposed on B7800 TC	5
[3 <u>4</u>]	systems is that no unit may have in-use paths to more than one	
35	local box. Units may be exchanged across IOMs as long as the	β.
29	IOMs are in the same local box.	P
Ğ7	Tomo are in the same focal box.	
18	CONFIGURATION FILES	3: 3: 3: 3: 3: 3: 3: 4: 4: 4:
39		R ₂
40	The configuration file is used to hold GROUP descriptions	
41	which define how the system is to be configured. The	4
42	RECONFIGURE ODT command causes the MCP to assume a specified	4:
43	GROUP configuration.	
44		4.
45	The utility program, SYSTEM/CONFIGURATOR, is used to construct	4
46	object configuration files (which can be used by the MCP) from	4
47	symbolic configuration files. The internal file names used by	4
48	CONFIGURATOR are SOURCE for the input file and OBJECT for the	4
49	output file (defaults: input TITLE SYMBOL/CONFIGURATION,	4: 4: 4: 4: 4: 4:
	output TITLE SYSTEM/CONFIGURATION).	
51		5 5 5 5 5 5 5 5 5 5 5 5 5
52	Input to SYSTEM/CONFIGURATOR consists of one or more GROUP	5
53	descriptions, each with a unique GROUP name and its associated	5
54	mainframe and peripheral specifications. The output file from	5
55	SYSTEM/CONFIGURATOR is designated as the configuration file	5
56	with the CF ODT command. The RECONFIGURE GROUP AS <group< th=""><th>5</th></group<>	5
57	Name> ODT command causes the configuration found to be	5
58	displayed; an operator OK causes the MCP tables on the H/L	5
59	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5
50 51 52 53 54 55 56 57 58 59 60		ē

_ .		
	1 - 35	
3		A
4	unit to be updated. The system will deadstop to allow the	
5	operator to make whatever changes are necessary to mainframe	5
6	switch settings for the new configuration. When the system is	6
7	loaded it will result in initialization based on the new	7
8	configuration.	. 81
9		9.
10	SUBSYSTEM DEFINITIONS	[19]
11	A TC system contains one GLOBAL memory subsystem and a local	
13	memory subsystem for each box. The local memory subsystems are	
14	identified by their BOX numbers and the GLOBAL memory is	[14]
15	identified by the letter G or GLOBAL.	15
16		16
16 17	Subsystems may be given names in the form of alphanumeric	17
18	identifiers. Subsystem identifiers are defined by the operator	18
19	through the ODT command MS (Make Subsystem). Subsystems may be	19
20	defined including any one or more memory subsystems in the	29
19 20 21 22 22 22 25 26 27 28 29 33 33 33 33 33 33 33 33 44 44 45 46 47 48 49 55 55 55 55 55 55 56 56	system.	21
63	The user specifies a subsystem by using the task attribute	22 23
64	SUBSYSTEM which may assigned a value only when the task is	23
25	inactive. The SUBSYSTEM task attribute can be used in WFL,	55
26	CANDE, programming languages and on Job Queues. The SUBSYSTEM	25 26 27
27	attribute is treated as a request to guide placement of a task	27
28	in memory.	28
29		29
30		30
31		21
32		32
35		35
36		36
37		37
38		38
39		39
40		149
41		<u>41</u>
[3		42
		43
45		44 45
46		
47		46 47
48		48 49
49		49
50		50
<u> </u>		51
P4 53		50 51 52 53 54 55 56 57 58
P3		53
<u> </u>		54
56		53 56
6 7		6 7
58		58
59		59
6d		60

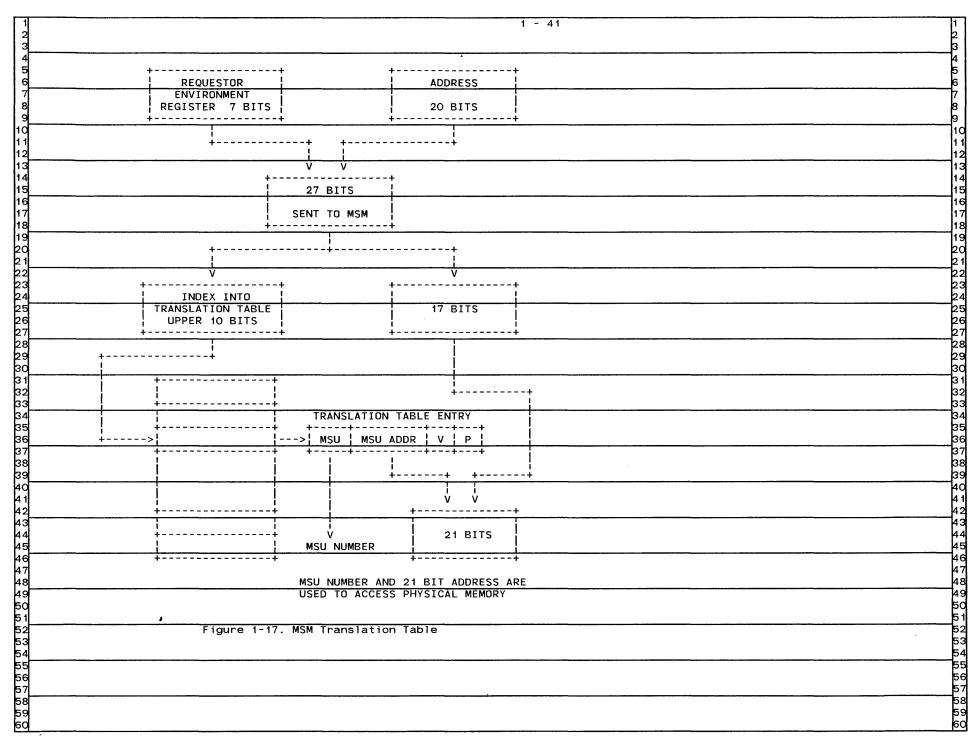
1	1 - 36	[1]
2		2
4		3
5		5
9	B7900 HARDWARE OVERVIEW	6
4		l∕
9	This sub-section provides an overview of B7900 hardware and	9
10	software. The information has been extracted from the 34 B7900	10
11	D-notes. In many cases the information has been copied from	11
12 13	these D-notes. It is provided in this document for completeness.	12
14	Collip re terress:	14
15		15
16 17	INTRODUCTION	16
17 18	·································	17 18
19	A B7900 system is comprised of several different modules.	19
	These include Central Processing Modules (CPM), Memory	20
21	Subsystem Modules (MSM), I/O Subsystem Modules (IOSM), I/O	21
20 21 22 23 24 25 26 27 28 29	Expansion Cabinets, a System Control Cabinet (SCC) and the System Console.	22 23
24	System consore.	24
25	The MSM allows the B7900 to address more memory than any	25 26
26	previous large system and allows simultaneous read/write	26
27	operations.	
29	The B7900 CPM is a pipelined processor with multiple (data and	29
30	code) high speed cache (associative) memories.	
31		31
32	The IOSM is comprised of two separate processing modules: the Auxiliary Processor (AP) and the Host Data Unit (HDU). The AP	32 33
34	is a small, strictly serial processor which functions as a	33
35	maintenance processor or in the B7900 system as an auxiliary	35 36
36	processor.	
31 32 33 34 35 36 37 38 39	The HDU manages all I/O operations on the system. The I/O	. 37
39	subsystem it supports is the DLP-based Input/Output subsystem	38 39
40	used by all of the 900 series systems. The IOSM also contains	40
41	four base modules which contain the Data Link Processors which	41
42 43	control the peripherals. The I/O Expansion Cabinet is used if additional base modules are required to configure the I/O	42
44	subsystem. It contains up to six base modules.	44
44 45		44 45
46	The SCC houses three components: the master clock, the	46 47
47 48	Maintenance Exchange (MEX), and the HDU/MSM profile card test station. The master clock provides clock signals to each of	47 ₁ 48
48 49	the boxes in the system. The MEX provides connection between	49
L1	the components which may act as "maintenance processors" and	H- al
51	the maintenance interface in each box in the system.	51
52 53	The System Concelle provides table space for the system CDTs	52 53
54	The System Console provides table space for the system ODTs. For system initialization and maintenance, a modified MTS2	50 51 52 53 54 55 56 57 58 59
55	series terminal (MMTS2) is used. The MMTS2 acts as a	55
56	maintenance processor, using two ICMD drives packaged in the	56
50 51 52 53 55 55 56 57 58 59	leg of the maintenance console for program and file storage.	57
59 59	The MMTS2 has access to the MEX for system initialization and	58 59
60		eo eo

	1 - 37	
	1 - 3/	
	maintenance, and to the I/O Testbus for off-line DLP testing.	
	In the text that follows, these new features are explained in	
	terms of their impact on the hardware and software that	
	comprise the B7900 system. This explanation is by no means	
	comprehensive.	
	CENTRAL PROCESSIAN MODILLE (OPM)	
_	CENTRAL PROCESSING MODULE (CPM)	
	The B7900 CPM is a powerful pipelined processor with high	
	speed code and data caches. It is object-code compatible with	,
	all previous B5000, B6000 and B7000 machines except in two	
	respects: it does not support the six bit character data type	
	(BCL) and, like the B7800, it does not support vector-mode.	
	In addition to these changes, the basic design of the B7900	
	includes many improvements over the B7800. The two most	
	noticeable of these are the more accurate arithmetic	
_	operations and more efficient branch handling.	
	The B7900 CPM performs arithmetic operations more accurately	
	than any previous machine (except the B5900). This increased	
-	accuracy should cause numerical algorithms to converge	
	slightly faster and may cause minor differences in arithmetic	
	results as compared to previous machines.	
	As the B7900 CPM is a pipelined processor, it has the	
	traditional difficulty handling conditional branches within a	
_	program. It must always choose a particular direction for a	
	branch and prepare to execute the proper code for that	
	direction. For example, the B7800 always assumes that the	
	condition of an IF statement in FORTRAN or ALGOL will be true	
	and fills its pipeline with the code that would be executed	
	based on this assumption. Performance of the pipeline is penalized when branches do not go according to their assumed	
	direction. The B7900 mitigates this penalty by remembering	
	the direction which the branch last took, and assuming the	
-	same branch will be taken the next time.	
	The B7900 CPM has an increased memory addressing capability	
_	over the B7800 CPM, which is accomplished by memory	
	environment registers. Because of the 20-bit address field,	
	the CPM still only addresses one million words at any one	
	time, but it can address all of memory by changing its	
	environment registers to access different million-word	
	environments. Extended Memory is discussed in the Memory	
	Management sub-section.	
	The CPM consists of the following hardware modules: Program	
	Control Unit, Data Reference Unit, Execution Unit, Store	
	Queue, Memory Access Unit, and Card Test Station.	
	and the second s	

					1 - 38		1				
2 3)2 3				
4							4				
5					+		5 6				
}	CODE CACHE PROGRAM CONTROL UNIT										
8		8									
10			2048	(PCU)			10				
1 1	++ /		WORDS		-		111				
12	MSM			-+	+						
13 14	¦ 2 ¦	MEMORY ACCESS	DATA REFERENCE	CENTRAL DATA	EXECUTION		[13				
15	' '	UNIT	UNIT	BUFFERS	UNIT		115				
15 16 17		(MAU)	(DRU)	(CDB)	(EU)		16				
17	++	-		-+	+		117				
18	MSM	F	DATA				18				
19	¦ 1 ¦ ;		CACHE	STORE QU	EUE						
21 ·	T = T		2048	(SQ)			PC				
18			WORDS	(30)							
23	-						23				
24							24				
25							25				
26	F 1	4 45 5	77000 011 5		(ODM)		26				
2/	F 1gur	re 1-15. E	3/900 Central P	rocessor Module	(CPM)		2/				
20	The Program	Control I	Init (PCII) extr	acts code from	the code		29				
30				for the Execut			E C				
31	Data Referer	nce Unit.	These instruc	tions are placed	in queues		31				
32				dresses in the (B2				
33				d and where the			33				
34	to be stor			ey unit for the			[34				
ပေ ဂရ				ecution Unit ahe ormed by the PCL			35				
37	operator cor	Catenatic	on is also peri	of filed by the FCC	-		37				
38	The Data Ref	ference Ur	nit (DRU), upo	n command from	the PCU,		38				
39				tive memory or m			38 39				
40	Extensive us	se of pipe		one-clock ret			40				
4 1 4 2	associative	memory.					<u> </u>				
42 43	The Evecution	on lini+ (II) performe al	1 arithmetic a	nd logical						
44				al Data Buffer.							
45				a Buffer or may			42 45 46				
46			nd the store qu				46				
47		•					47 48				
48				uce traffic to r			48 49				
49 50				es to the same a memory. Also			<u> </u>				
5 1				llti-word store k			5				
52	queue.	3					52				
53	•						53				
54	The Memory A	Access Uni	it (MAU) provic	es the interfac			54				
55				to two MSMs.	On memory		55				
D6	references a address are			ster along with	tne 20-bit		56				
58	address are	sent to	LITE 19319.	*			5.				
50 51 52 53 54 55 56 57 58 59							50 51 52 53 54 55 56 57				
60							60				

11	1 - 39	[1]
1 2		2
3	The Court Took Chatier is used to some sciences and took of the court	
	The Card Test Station is used to run maintenance tests on CPM-style cards.	4
1 2	CPM-Style dards.	p l
} 		
Ŕ	MEMORY SUBSYSTEM MODULE (MSM)	la la
9	MEMORY SUBSISIENT MODELE (MSM)	6
10		10
1 1	The B7900 includes one or two Memory Subsystem Modules (MSMs)	11
12	totaling up to 96 megabytes. A MSM has a bandwidth of 72	12
13	MB/SEC. Each MSM contains from one to four Memory Storage	13
14	Units (MSUs) and a Memory Control (MC).	14
15		15
16	The Memory Storage Unit (MSU) contains one or two sub-modules,	16
17	each consisting of 6 megabytes. The memory is eight-word	17
18	phased (transmission of words at clock rate) within each	18
19	sub-module. This means the system can run with half an MSU or	[19
59	one sub-module without losing the speed of the eight-word	20
<u> </u>	phasing.	21
52	The Memory Control consists of the following major redules:	22
64	The Memory Control consists of the following major modules: Requestor Interface Adapter (RIA), Memory Interface Adapter	23
53	(MIA), Priority Resolution Module, Error Module, Requestor	
56	Interrupt Module and Maintenance Module.	ha
57	The rape modern and marrienance modern.	25 26 27
28		28
29		28 29 30
30		Bd
31		31
32		32
33		33
34		34 35 36
35		35
36		36
37		37
20		38 39
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 33 33 33 33 33 33 33 33 33 3		40
41		4
42		42
43		43
44		44
45		44 45
46		46
47		46 47 48
48		48
49		49
50		50
[2]		50 51 52 53 54 55 56 57 58 59
24		52
E3		
<u> </u>		
56		55
67		57 57
58		58
59		59
50 51 52 53 54 55 56 57 58 59		60

1					1 - 40		1					
3	_						2 3					
4	MEMORY CONTROL											
<u>6</u>	MEMORY CONTROL REQUESTORS											
8	† <u>†</u> † <u>†</u> †											
1,9	++ ! MSU !	MIA	PRIORITY	RIA 7	CPM							
11	6 OR 12 +	.	RESOLUTION	++	}		11					
12		3	MODULE	RIA +	+ 6		12					
14		<u></u>			÷÷		14					
15 16	MSU	MIA	ERROR	RIA 5			116					
17	6 OR 12 +	. 1	MODULE		++ 1		117					
18 19	MB ++	2		RIA 4	AP		18					
20 21 22	++	+ + ! !		++ ! RIA +	+ 3		20					
22	MSU	MIA	REQUESTOR	3			22					
23 24	6 OR 12 +	1	INTERRUPT MODULE	++ RIA	++		22 23 24					
25	++			2			25					
27	. +			++ RIA			25 26 27 28 29					
28	MSU 6 OR 12 +	MIA	MAINTENANCE MODULE	1 1 1	HDU		28					
30	МВ	0	MODULE	RIA +	+ 0							
23 24 25 26 27 28 29 30 31	++	; ++:		0	i ++		31 32 33					
							33					
35							34 35 36					
36	Figure 1	-16. B79	900 Memory Subsys	tem Module	(MSM)		3.					
38			es to memory thro				37 38 39					
39 40	Interface Adapto). For any memor ta words are sent									
41	its RIA. The I	RIA che	cks these words f	or errors,	reports any		4 1 4 2					
43	until the priori	ty reso	, and stores them lver commands the									
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Memory Interface	Adapte	r (MIA).	•			43 44 45 46 47					
46	Each RIA conta				able which		46					
47 48			y of the address hysically in st				47 48					
49	address transla	tion tal	ole provides a ma	pping from	environment		49					
51 51	address translat	ion tab	physical locat le contains 1024	eight bit	words. Each		5					
52			ion for a page (1 ins a MSU number				5.					
54			ins a MSU number ity bit and parit		M30 PETALIVE		50 52 53 54 55 56 57					
55 56							5: 5(
50 51 52 53 54 55 56 57 58 59							5.					
58 59							55 55					
60							60					



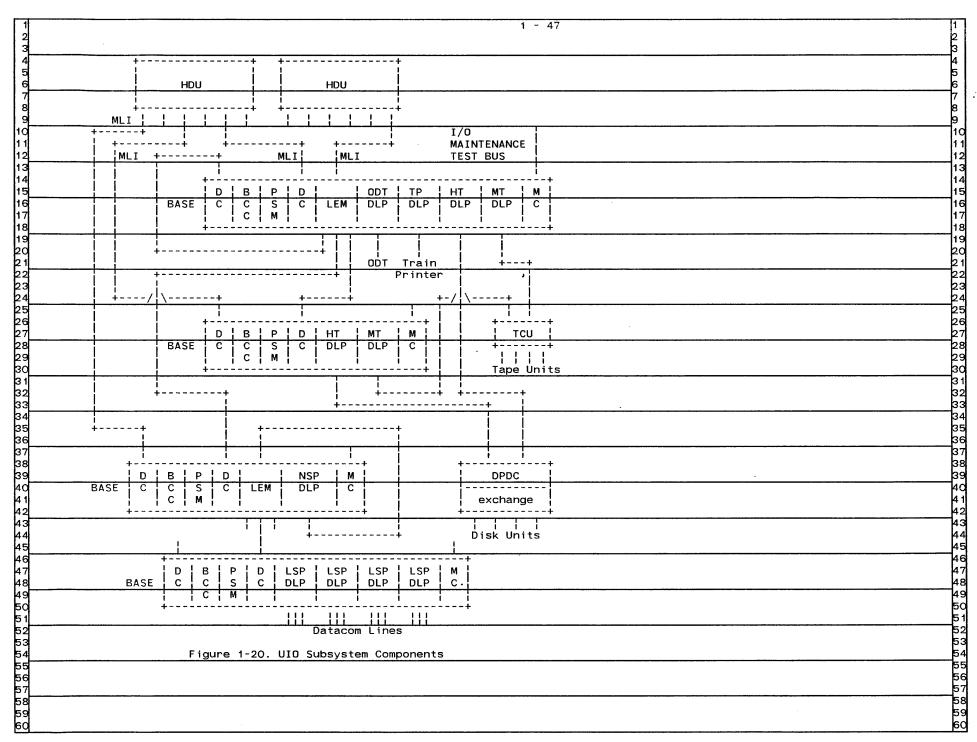
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14 .		٤ ا
3		3
	The Memory Interface Adapter (MIA) controls the flow of	E I
1 2	information between the memory control internal bus structure	နိုင် မ
7	and the Memory Storage Unit (MSU). A memory control contains	7
8	from one to four MIAs with the capability of all MIAs making	8
9	simultaneous requests to the MSU to which they are connected.	9
10		10
111	The order in which system requests are handled by the MSM is	111
12	determined by the Priority Resolver Module. Requests are	12
13	processed by a modified First In First Out (FIFO) algorithm.	13
14 15	Snapshots of memory requests are recorded on a basic time	114
15	interval as they arrive. The snapshots of requests are	15
16 17	processed in the order they are taken.	16
17		17
18	Within a snapshot, requests will be serviced in the following	16 17 18
19	sequence: read operations, write operations, special	19
20	operations (except for write translation table), write	þo
[21]	translation table. The higher number requestor will be given	21
22	the higher priority, if there are duplicate requests for a	22
23	particular type, although this should have no effect on system	23
K#	performance.	19 20 21 22 23 24 25 26 27 28 29
20	Dy manny of a modified Hamming Code the Enney Module con	25
27	By means of a modified Hamming Code, the Error Module can detect and correct single bit errors and detect two-bit	26
58	errors. Any errors detected during MSU operations or internal	2/
20	memory control operations are reported to the RIA. The Error	bo bo
50	Module will report the control word or the fail word or both	20
<u> </u>	if requested by the requestor.	
32	equestical bys equestion .	. 82
33	The requestor interrupt module is responsible for the correct	31 32 33 34 35 36 37 38 39
34	routing of interrupts and for interrupting the destination	34
35	requestor via unique interrupt lines on receipt of an incoming	35
36	interrupt. There are two types of interrupt buffers	36
37	maintained by the MSM for each requestor: hardware and	37
38	software. These buffers are used to accumulate interrupts and	38
39	can be read by the requestor via a system operation. The	
40	software interrupt buffer contains a bit mask of requestors	40
4 1	from which interrupts have been received. The hardware	μ.
42	interrupt buffer is an eight-bit mask which designates the	42
43	type of interrupt.	43
14	The market man and the control of th	14.2
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	The maintenance module performs all maintenance type functions	45
40	for the MSM. In system mode, the maintenance module handles	44 45 46 47 48
48	reading and writing the fields in the MSM BOXID. All other maintenance operations are done through the maintenance	4 /
48	maintenance operations are done through the maintenance interface.	49
	miter race.	
E 1		50 51 52 53 54 55 56 57 58
F2	AUXILIARY PROCESSOR (AP/AMP)	
53	ACATETANT PROCESSOR (AFYAMIT)	5
54		52
50 51 52 53 54 55 57 58 59	The Auxiliary Processor/Auxiliary Maintenance Processor	
56	(AP/AMP) is based on the B5900 Entry Level System and is	56
57	compatible with the B7900 CPM. The AP/AMP has two distinct	5
58	modes of operation: AP and AMP. To support these two	55
59		55
60		60

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			e versions of m				
communicate							
In Auxiliary							
 finishes who							
of running							
			ld do in this case stem, the MCP noti				
			remain. The oper				
waiting enti	ry in oi	rder to a	llow jobs to run o	n the AP.			
			rocessor (AMP) m				•
			ory and HDP hardwa standalone syste				·
 function o	f the	AMP is	to perform mainten	ance on t	he B7900		
system. The	e AMP of	perationa	lly is the same as	the B590	0.		
			nto five major u				
			nd System Memory C APIM) and the Host				
(HDP).	IU Maili	tenance (AFIM) and the nost	Depende	III FOI L		
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	! !			MLIs			
	, 	AD	MODE ONLY	+			
	•		MODE SIVE!	•			
		i +-	AMP MODE	ONLY			
	Figure	1-18. Aux	iliary Processor (AP/AMP)			
The process	on model	le ponfo	nmae all anithma	tic and	logical		
 operations	for the	AP/AMP.	rmes all arithme	cic and	rogical	· · · · · · · · · · · · · · · · · · ·	
	/ ·	•					
 when the AP,	/AMP is	running The HDP n	in AMP mode, rovides the I/O su	tne HDP bsystem i	section nterface		
2555,,,65		p					•

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2	1 44	d
3		3
4	for the AMP.	4
5	Mineral March 10 (AMD) to several terms for the MAD.	5
9	When the AP/AMP is running in AMP mode, the local memory becomes active and the B7900 MSM memory is no longer used.	6
a 8	The local memory has a capacity of 512K words. Error	/ a
9	correction and logging are features provided by the LM.	9
10		10
11	When the AP/AMP is running in AP mode, the AP interfaces to	11
12	the B7900 MSM memory by means of the APMC (Cache and System	12
13	Memory Controller) module. The APMC can interface with two	[13
14 15	MSMs. The cache memory consists of 128 words of code and 128 words of data. The cache hardware performs automatic	14
16	prefetching of code. Any word in the cache can be accessed in	16
17	1 clock and the cache can be purged in 2 clocks.	[47]
18		18
	The AP/AMP Interrupt and Maintenance Module (APIM) interfaces	19
20	to the MSM system interrupt bus and Maintenance Exchange	þo
21	(MEX), contains AP box identification information, and	21
19 20 21 22 22 23 224 25 26 27 28 29 33 31 32 33 34 35 36 37 38 39	provides support for the AP Memory Control/Cache (APMC).	22
24		23
25	HOST DATA UNIT (HDU)	25
26	The state (the state)	26
27		26 27
28	The HDU contains a Memory Bus Control (MBC) which handles the	28
29	HDU's interface to the MSM, the Queue Manager (QM) which	28 29 30
30	handles the I/O queue structures and flow control, and three	
31	Host Dependent Ports (HDPs) which connect to the I/O	31
32	subsystem. Each HDP is capable of operating at a burst rate of 8 Megabytes/Second for a total of 24 Megabytes/Second per	32 33
34	HDU.	34
35		35
36		35 36
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8 a				Fig	gure	1-19.	Host Data	Unit (HDU)									
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3	cop.	ies	of t	he :	IOCBs	tha	t have be is local me	en issue	d to	the	1/0			 			······································	 7
5	the	cod	e fo	r tl	he Mo	CP B	oot and t	he Minima	1 Cor	nf i gur	ation							
6			ion no			initi	alize the s	ystem. I	t is	calle	d the							Ľ
8														 				┵
9) provides can connect											
1	MBC	hand	les u	p to	eigh:	t-wore	d memory t echanism (E	ransfers	and	uses	the			 				
3	20-k	oit a	ddres	s) as	s the	CPM.	It also h	andles th	e rec									Ę
5	requ	uesto	r int	erru	ots wi	hich	use the mem	ory buses		······································				 				
6							P) provides											
50 51 52 53 54 55 56 57 58 59	the Each	1/0 HDP	cont	syste rols	em us	sing MLI p	the Messag orts, each	e Level I of which	nterf conne	ects t	o one			 				 5 5 5 5 6 6
9						·												
<u>'</u>																		 Ľ

1 2	1 - 46	1 2
3		3
5	MLI cable. The HDPs control the MLI and are responsible for all data transfer for the system.	5
9_		_6
7	DLP-BASED I/O SUBSYSTEM COMPONENTS	7 8
9_		9
19	Each HDP in the HDU contains two MLI ports which are connected	10
12	to I/O bases via an MLI. An I/O Base is a rack which contains	12
13	a Base Control Card (BCC), Distribution Cards (DCs), a]13
14	Maintenance Card (MC), Data Link Processors (DLPs), and, optionally, a Path Selection Module (PSM), and/or Line	15
16	Expansion Module (LEM).	16
17] 18		117
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51 52 53 55 55 57 58		_ 54 55
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3		K
4		
5	The Maintenance Card (MC) provides maintenance functions for	5
6	the base. It connects to the I/O Maintenance Test Bus which	6
7	is used to perform off-line maintenance.	7
8		8
9	A Distribution Card (DC) provides the interface between the	9
10	base module and the host. One MLI cable from a host's MLI	[19]
12	Port connects to a DC in the Base Module. Through the DC, a host can communicate with the BCC and the DLPs in the base.	111
13	There can be only six DCs in a base although the "addressing"	12
14	allows for eight. DCs are "addressed" by jumpering an ID from	114
14 15	0 to 7.	115
16 17		16
17	A Path Selection Module (PSM) coordinates the activities of	17
18	multiple DCs in a base, and is required in a base which has	18
19	more than one DC. Several hosts can be actively communicating	19
K9	with DLPs in a base, but only one DC can access the BCC or	29
5,	have access to the base backplane at any time. The PSM resolves these conflicts.	21
<u> </u>	1 COUTY CO CHESE CONTITUES.	22 23
20 21 22 23 24 25 26 27 28 29 30	The PSM also uses the masks in the BCC in order to clear only	24
25	the DLPs assigned to the host issuing a Master Clear by	25
26	issuing a Selective Clear or Selective Master Clear (see	26 27
27	below) to each assigned DLP.	
28		28 29 30
29	The PSM contains eight field-installed jumpers (one for each	29
Rd	possible DLP in the Base) which, when set, will cause a Selective Master Clear (instead of a Selective Clear) to be	
23	issued to the corresponding DLP when the host system issues a	31
33	Master Clear.	32 33
34		34
35	The Base Control Card (BCC) provides identification and access	34 35 36
36	control for a Base Module. The BCC contains two types of	36
37 .	masks which are used to control access into a base and its	[37]
38	DLPs. These are the DC Enable Mask and the DLP Enable Masks.	38 39
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	The eight hit DC Frahla Mark indicates which DC-	39
44	The eight-bit DC Enable Mask indicates which DCs are allowed	49
[2	access to the base. A locked-out DC will not respond to the host or execute a host-generated Master Clear.	41 42
43	Hour of skedule a float generated master ofear.	43
44	The BCC also has eight 16-bit DLP Enable Masks, one for each	
45	possible DC in the base. A DC's DLP Enable Mask indicates to	45
46	the PSM which DLPs this DC is allowed to access. The PSM also	44 45 46 47 48
47	uses these masks in order to determine which DLPs will be	47
48	cleared when a MLI Master Clear is received via a DC. Only	
49	those DLPs enabled to that DC will be cleared.	49
PY E1	Along with the eight DLD Enchle Marks the BCC contains on	Εď
Ę.J	Along with the eight DLP Enable Masks, the BCC contains an Acquire Enable Bit for each possible DC in the base. This bit	
53	indicates whether or not another DC may "steal" DLPs from this	53 53
54	DC.	50 51 52 53 54 55 56 57 58
55		55
56	The BCC also has a 32-bit Maintenance Mask that indicates	56
57	which devices in the base (DLPs, DCs, BCC, PSM, LEM) are	57
58	enabled on the I/O Maintenance Test Bus. Devices are	58
50 51 52 53 54 55 56 57 58 59		59
<u>pu</u>		60

	1 - 49	
	identified in the mask by their Maintenance Addresses (or Unit	
	Numbers).	
	The DC Enable Mask and the DLP Enable Masks can be cleared	
	only by one of the following manual operations:	
	only by one of the forfowing manual operations.	
	1. Powering up the Base.	
	Town my up the base.	
	2. Pushing the BCC Clear Switch on the BCC.	
	3. Pushing the Base Clear Switch on the MC.	
		•
	When the BCC is cleared, the DC Enable mask is set so all DCs	
	are enabled in the Base, the DLP Enable masks are set so all	
	DLPs are disabled from all DCs, all Acquire Enable bits are	
	set to disable the "steal" function and Maintenance is enabled	
	to all devices in the Base.	

	The DC Enable Mask can be set only via a DC (by software) if	
	it is enabled in the DC Enable Mask. A DC can enable a DLP in	
	its DLP Enable Mask only if the DLP is not already enabled in	
	another DC's DLP Enable Mask. The exception to this rule is	
	the ability to "steal" a DLP. In order for a DC (DC 1) to	
	steal DLPs from another DC (DC 2), DC 2's host must have	
	previously set DC 2's Acquire Enable bit. When DC 1's host	
	issues a variant of the LOAD DLP MASK command, the specified	
	DLPs will be disabled from DC 2's DLP Enable mask and enabled in DC 1's DLP Enable Mask. A DC may also share DLPs with	
	other DCs and transfer DLPs to another DC.	
	other bes and transfer bers to another be.	
	A Line Expansion Module (LEM) enables a host to be connected	
	to more bases by expanding one MLI to up to seven MLIs. It	
	resides in a base.	
	A LEM consists of three types of cards. The type 'A' card	
	contains the basic LEM logic, two MLI ports (ports 6 and 7)	
	and the Maintenance Address jumpers.	
	÷ •	
	The 1×2 LEM ID, or type "C" card, provides two MLI ports	
	(ports 1 and 2) and LEM identification. The 1x3 LEM Exchange,	
	or type "B" card, provides three MLI Ports (ports 3, 4 and 5).	
	A Data Link Processor (DLP) provides the interface between	
	hosts and peripheral devices. The operation of a DLP is	
	device-dependent, and there are different types of DLPs to	
	control different types of devices. All DLPs follow the MLI	
	protocols to communicate with a host, perform a set of	
	standard DLP operations, and return certain standard results.	
	Included in these standard DLP operations is the TEST IDENTIFY	
	operation which returns the DLP type and the DLP's strapped	
	ID.	
	The DIDE that one appropriate appropriate on the STOOD area.	
	The DLPs that are currently supported on the B7900 are:	
	·	

1		1 - 50	Į,
3			
4 5	DLP	Per ipheral	4 5
6			6
7	CR1	Card Reader	7
8	HC2	ISC Host Control	8
9	HT 1	(Host Transfer) 206,207,659,677 Disk Pack	9
10	MT 1	Mag Tape: PE	10
1 1	MT2	Mag Tape: PE/GCR]1
12	MT3	Mag Tape: NRZ	
13	ODT 1	Operator Display Terminal	[1:
14	LSP1	Datacom Line Support: Sub-broadband	
15	TP2	Buffered Printer: 1200/2000 LPM	1
16	NSP3	Datacom NSP: Blocked	10
17			16 11 18
18			18
19			19 20 2
20			po
21		rently be up to eight DLPs in a base although	
22		6 "addresses" reserved. A DLP's "address" is	<u> 2</u> 2
23		om jumpers on the DLP's logic cards and is also	<u> </u>
24	its Maintenand	ce Address.	22
25	5.5		25
26		ssignment affects hardware priority algorithms:	26
27		operation of the system, these algorithms must be	27
28	understood and	d the DLP addresses assigned accordingly.	28
29			<u>p</u> 29
30		ase, concurrent requests by multiple DLPs are	3(
31		y the Base Control Card based on the Base Module	3.
32		ne DLPs. The Base Module Priority of a DLP is	β
33	determined dir	rectly by its address; the DLP with address 7 has	33
34		Priority of 7, which is the highest possible	32
NO NO		en presented with multiple DLP requests, the Base	St
36		selects the DLP with the highest Base Module	
ار م ام	Priority.		3 h
မန ဂဂ			B
[3]——	DEVICE NAMENO		35
44	DEVICE NAMING		40 M
42		`	Ľ.
18	The P7000 ::11	1 have its I/O configuration described in a	22 22 25 26 27 28 29 30 31 32 33 34 35 36 37 40 41 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44
		onfiguration Diagram (PCD). The PCD is the B7900	G:
		f the B7700/B7800 Unitcards and contains	i.
[2		of all devices and connections in the peripheral	
[7		n the PCD all devices (including units, DLPs,	<u>;</u> ;
Ľá		and MLI Ports) are assigned arbitrary numbers,	C.
49	called Device	Numbers, which will be used when referring to a	49
		PCD also contains the information necessary to	
E 1		paths to the device to be used in performing I/O	56 5 53 53 54 55 55 55
E2	operations.	pacie to the device to be used in periodianing 1/0	
53	operations.	•	,
E4	The P7900 c	upports larger device numbers than previous	<u> </u>
50 51 52 53 54 55 56 57 58 59	evetone ubic	upports larger device numbers than previous	
Ed		he B7900 are currently 15-bit numbers (or between	Ę.
57		ne B/900 are currently 15-bit numbers (or between . Although devices may be numbered between 1 and	्र इ
E8		55 peripherals, NSPs and LSPs may be in a B7900	
20	32/0/, Only 2:	os per iprierara, nora and cora may be in a 6/300	
60			p G
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1	. 1 - 51	enterior (
2	\cdot	2 A
🏻 🖳	partition at one time. The B6800, B5900/B6900 and B7700/B7800	
	systems are still restricted to eight-bit device numbers	E
1 2	(between 1 and 255).	Ĕ Ì
1 7	(between 1 and 200).	7
8	The device number for an NSP or LSP must be an integer from 1	8
8 9	to 255. This device number must match the NDLII program. An	9
10	NSP can control up to 8 LSPs at any time.	10
1 1		[1 1
12	The device number for an HC must be an integer from 1 to 255	12
13	if BNA is to be used.	13
14		14
15	The B7900 MCP will use the PCD to determine the paths to a	15
16	device and will attempt to verify the information in the PCD	16
[17]	before using a device.	17
[18]		18
19	AND DESIGNATION	19
ka	AMP DEVICE NAMING	20
11 12 13 14 15 16 17 18 19 20 21 22 22 23 22 24 25 26 27 28 29 33 33 33 33 33 33 33 33 40 41 42 43 44 44 44 45 47 48 49		21 ha
23	The B7900 AMP, which is a modified B5900, uses the B5900	22 23 24
54	device naming rules. B5900 systems use the strapped ids in	. 23 ba
25	the I/O subsystem components in order to identify or name the	
29	peripheral units controlled by them. Currently the MCP only	25 26 27 28 29 30
67	allows for eight-bit device numbers for the B5900. If a DLP	27
28	can have only one unit attached to it, the lower eight bits of	28
29	that unit's number are the same as the DLP's strapped ID. If	29
30	there can be more than one unit controlled by a DLP, the	30
31	unit's number is the DLP's strapped ID plus the unit's address	31 32 33
32	relative to the DLP.	32
33		33
34	Peripherals not qualified on the B5900 are not supported on	34
35	the AMP.	35
36	·	36
37		37
38	I/O RECONFIGURATION	38
49		39
79	Online I/O reconfiguration on the P7000 beautiful	34 35 36 37 38 39 40 41 42
12	Online I/O reconfiguration on the B7900 has similar capabilities to the B7800. Many of the functions are	4 1 14 0
[3	identical, in syntax and semantics. Because of the difference	
44	in the hardware components, though, there are some differences	
45	in syntax and functionality, and there are several new and	43 44 45 46 47 48
46	unique functions.	46
47	managers of the section of the secti	47
48	B7900 peripheral reconfiguration (FREE, ACQUIRE, RY, SV, UR,	48
49	UR-, MOVE, REPLACE and CL) is identical to B7800 peripheral	49
	reconfiguration with two exceptions. The first is that the RY	
51	command with path selection to append devices and the SV (-)	50 51 52 53 54 55 56 57 58
50 51 52 53 55 55 56 57 58 59 60	command to remove them are not supported. These functions can	52
53	be accomplished by loading a new Peripheral Configuration	53
54	Diagram (PCD). The second is that the syntax of the LH (Load	54
55	Host) command (to load a controlware file to a disk pack drive	55
56	controller) is slightly different. The DLP device number is	56
P7	used to specify the path instead of CH <#> IOM <#>.	b/
p8		58
p y		ba
oUI		16U

1	1 - 52	[1
2		þ
3		3
4	There are two B7900 I/O reconfiguration capabilities which are	4
٦	functionally similar to B7800 capabilities. FREE/ACQUIRE IOP	þ
9	(IOP is used to refer to an HDU in the B7900 I/O ODT commands) corresponds to FREE/ACQUIRE IOM. UR DLP <dlp device="" number=""></dlp>	0
4	is similar to UR CH <#> IOM <#>.	1/8
3	is similar to us on 10 or <	, p
10	The unique B7900 I/O reconfiguration capabilities include	9
11	FREE/ACQUIRE DLP, UR/UR- MLI, UR/UR- BASE, UR/UR- BASE MAINT	
12	and UR/UR- DLP MAINT.	
13	and dry on DET IMPLIET.	
14	DLPs are not shareable between partitions and, therefore, must	14
14 15	only be ACQUIREd by one partition at any time (FREE/ACQUIRE	1,
16	DLP). DLPs may be reserved in order to perform on-line	
17	maintenance or to suspend operations to the DLP via UR/UR-	11
	DLP. Off-line maintenance via the I/O Maintenance Test ·Bus	ļi
19	can be performed using UR/UR- DLP MAINT.	1
20		· 2 2
21	Bases are shared by all B7900 partitions to which they are	
22	connected. Bases may be reserved in order to suspend	2
18	operations through the Base or reserved for off-line	2
24	maintenance.	2 2 2 2
25		2
26	MLIs are implicitly ACQUIREd with the HDUs to which they are	· · 2
27	connected. They may be reserved in order to suspend	2
28	operations through a particular MLI.	2 2 3
29		2
ku L	T/O UNIT/DID/MIT LOAD DALANCING	
1 G	I/O UNIT/DLP/MLI LOAD BALANCING	5
24		3
[2]——	Each Base typically has multiple Distribution Cards and, thus,	
35	there are typically multiple paths into each Base. Each of	2
86	these paths is connected directly to an MLI or fans out from	3 3 3
37	an MLI via a LEM. Between a running partition and a	
38	particular Base, there is at any given time a set of viable	Š
39	MLIs. This set of MLIs is relatively static; it can change	3
40	only when HDUs are FREEd/ACQUIREd or MLIs are	4
41	URed/UR-ed/BROKEN. The MCP automatically attempts to evenly	4
42 43	distribute I/O traffic over all viable MLIs. The balancing	4
43	algorithm is always active and does not require operator	4
44	action.	4
44 45 46 47		4
46	Pack and tape units (which can be connected to an exchange)	4
47	may be accessible by more than one DLP. (Note: each DLP or	ř
48	peripheral should be ACQUIREd in only one partition at a	
49	time.) Between a running partition and a particular string of	
pQ	exchanged units, there is at any given time a set of viable	5
21	DLPs. This set of DLPs is relatively static; it can change	
엄	only when HDUs, MLIs, Bases, or DLPs are reconfigured or	.
53	marked BROKEN. The MCP automatically attempts to evenly	Ē
Ľ#——	distribute I/O traffic over all viable DLPs. The balancing algorithm is always active and does not require operator	
53	algorithm is always active and does not require operator action.	į
57	action.	į
F8	System Option 39 (PATHBALANCING) has no effect on B7000	
59	System option of transparation has no effect on brook	Ę.
50 51 52 53 54 56 57 58 59		
1- - 1		1~

T 1	1 - 53	
2	7 - 53	
3		i.
4	Systems, including B7900 Systems.	
5		lei e
6		k
7	I/O TIME	
8		k
9		ķ
10	Reported "I/O Time" for tasks using moving-head media (e.g.,	1
11	packs) will generally be greater on HDU Systems (e.g., B7900)	! 1
12	than on IOM Systems. This discrepancy results from the	 -
13	different handling of seek operations by the two I/O	
14	subsystems and does not indicate that the actual ${ m I/O}$	į·
15	operations are slower on the B7900.	
16		[1
17	On IOM Systems, I/O Time on moving-head media is the sum of	
18 19	rotational latency and data transfer time. On HDU Systems,	
19	I/O Time on moving-head media is the sum of seek time,	Į.
29	rotational latency, and data transfer time.	
≾}		
24	MAINTENANCE HARDWARE	
24	MAINTENANCE MARDWARE	[:
25		
26	The B7900 incorporates "soft" access to low-level machine	<u> </u>
27	state. Using this mechanism, initialization and maintenance	ļ.
28	software may interrogate and set flip-flops, registers and RAM	
29	storages in the various boxes in the system.	Į.
30	Storages in the various boxes in the system.	ĥ
31	Within any system, every box is cabled to the System Control	
32	Cabinet (SCC) which houses the Maintenance Exchange (MEX).	Į.
33	The MEX provides for connection from any of the "maintenance	Į.
34	processors" in the system to each of the boxes in the system.	
35	The overall management of the maintenance bus is a	k
36	"master-slave" relationship, where "maintenance processors"	k
37	are masters and the various boxes they access are slaves. The	
38	MEX includes Fan In Adaptors (FIAs) and Fan Out Adaptors	į.
39	(FOAs). There is a FIA for each of the possible masters, and	
40	a FOA for each of the slaves in the system. Within each box	
20 21 22 22 23 4 22 26 27 28 20 31 31 32 33 33 34 44 44 44 44 44 44 44 44 44 44	(slave) there is "on-board" maintenance interface logic to	ļ.
42	allow for state access to that box. The overall arrangement	
43	of FIAs, MEX, FOAs and on-board maintenance logic is commonly	
44	called the "maintenance bus".	· · · · · · · · · · · · · · · · · · ·
45		
46	A MIP is a hardware component housed in the "leg" of a B7900	ľ
	Console. It is cabled to a pair of ICMD (floppy) drives, also	ľ
48	housed in the console leg. The MIP may also be cabled to the	
49 50	I/O Testbus. A MIP is driven by a Modified MTS2 terminal; only one MMTS2 may be cabled to any particular MIP, so the	
54	only one MMIS2 may be cabled to any particular MIP, so the MMTS2/MIP will typically be paired and thought of as one unit.	
[]	A MMTS2/MIP which is cabled to the MEX may act as a	
52	"maintenance processor" for the system.	·
54	maintenance processor for the system.	
<u> </u>	In any system, every processor will be cabled as a master to	
Ĕď	the MEX. This allows any "running" B7900 partition to act as	
6 7	a "maintenance processor" for hardware maintenance of boxes	
58	not in the partition. The maintenance software used in this	
50 51 52 53 54 55 56 57 58 59		
6d		

 1 - 54	
1 - 54	
 mode is IDA.	
MODE IS IDA.	
To any system and an energy ADS will be associated as ANDS	
 In any system, one or more APs will be configurable as AMPs.	
Using its connection to the MEX, an AMP may act as	
"maintenance processor"; this is done when it is not possible	
to configure a B7900 partition (for example, all MSMs down).	
 The maintenance software used in this mode is IDA.	
Built into the CPM cabinet, and appearing over the maintenance	
 bus as another "slave" station, is the CPM profile card test	
station. The software used for CPM card testing is IDA.	
MAINFRAME MAINTENANCE	
·	
Mainframe maintenance for the B7900 is divided into two	
groups: the AP/AMP and the other mainframe boxes (MSM, HDU,	
 CPM).	
OT 117.	
Maria Language Computer AD (AND to the provider the ANTECO (NTD on the	
 Maintenance for the AP/AMP is done using the MMTS2/MIP on the	
System Console. Two software packages are used: BEAM and	
APCON. BEAM provides for "low-level" static testing of the	
AP/AMP. The test patterns for these static tests are packaged	
 on a set of ICMD diskettes, and the BEAM program uses the MIP	
to run the patterns against the AP/AMP hardware. APCON	
provides for dynamic tests. The dynamic tests are written in	
AP/AMP microcode, and execute on the AP/AMP itself, with APCON	
serving to load the tests from their ICMD diskette and to	
 monitor their execution.	
The CPM, MSM and HDU are maintained from a "running system",	
using the IDA software. IDA is an ALGOL program, supported by	
 a set of maintenance libraries. It runs under MCP control.	
using normal system resources (such as CANDE). When enough	•
 hardware remains operational to configure and run a B7900	
partition, IDA is executed on that partition. When it is not	
possible to configure a B7900 partition (for example, in a	
model B7900F with the MSM down), the AP/AMP is configured and	
 run as an AMP, and IDA executes there. In either case, IDA	
uses the system processor's connection to the MEX to gain	
maintenance bus access to the box under test. Both dynamic	
 and static tests are provided for each of the box types. IDA	
is also used to drive the two card test stations: the CPM	
 profile test station, packaged in the CPM itself, and the	
HDU/MSM profile test station, packaged in the SCC.	
 I/O SUBSYSTEM MAINTENANCE	
· · · · · · · · · · · · · · · · · · ·	
 The P7000 I/O cubeyetem will be maintained atthem to	
The B7900 I/O subsystem will be maintained either in an	
off-line mode or an on-line mode. Off-line maintenance allows	
for the execution of diagnostic tests on the I/O components in	
a Base. These tests are run from the MMTS2/MIP on the	

1	1 - 55	1
2	•	<u></u> 2
3	Maintenance Console, accessing state in the off-line device	
5	via the I/O Maintenance Test Bus. The test patterns are	[7]
d	shipped on ICMD diskettes, along with the various I/O	6
7	components.	7
8		 8
9	On-line maintenance allows for confidence and maintenance	<u></u>
10	testing of DLPs and the peripherals they control. These tests	<u> </u> 1
11	will be performed by running Peripheral Test Language (PTL)	li e
12 13 14	programs through Peripheral Test Driver (PTD) under MCP control.	
14	control.	ļ.
15		l'i
15 16 17	PARTITIONING	1
17		Į:
18		111111111111111111111111111111111111111
19	In a B7900 system, "Partitioning" provides a means whereby a	1
20	subset of the boxes in the system may be managed by a single	<u> </u>
21	MCP. Moreover, partitioning prevents any box not in the	2
22	subset from in any way interfering with the successful execution of the subset. Such a subset is called a partition.	
18	execution of the subset. Such a subset is called a partition. This capability may be used in two ways:	É
25	Titl's capability may be used in two ways.	
26	A broken box may be tested while the remainder of the	
27	boxes executes as a partition. In this scheme the	
28	partition is protected against interference from the	
29	broken box.	2
3d		
31	A given system may be "split" into more than one partition, with each partition run independently. In	
33	this scheme each partition is protected against	
34	interference from actions in the other partitions.	· · · · · · · · · · · · · · · · · · ·
35		
36	Partitioning is established by software, but enforced by	
37	hardware. It involves the control of three interfaces: the	
38	system interface, the I/O subsystem interface, and the	
39	maintenance interface. Partition membership is marked in the	
	Partition Identification Register (PID) in each box.	
42	For example, in a Model H or K B7900 with the PAC kit, the	·
43	system can be run as a single partition, including all boxes.	
44	A "broken" box may be removed from the partition, tested, and	
45	returned without jeopardizing the continued execution of the	
46	partition. Further, the system may be "split" into two	1
41 42 43 44 45 46 47	partitions; each half would be run completely independently of	<u>K</u>
48	the other.	
49 50	The software involved in making partitions are SYCON and the	
5 1	MCP. SYCON will initially establish a partition upon	
	instructions from the user. This includes setting the	
52 53 54 55 56 57 58 59	controls for the system and maintenance interface, and the	
54	PIDs in all boxes in the partition. SYCON will then start the	
55	MCP running. SYCON is further discussed in the section on	
56	System Initialization.	· ·
57		
58 50	The MCP will, as part of its initialization, establish control	į.
60 60		

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2		<u>'</u> 2
3		3
4	over the maintenance interface, thus disabling the maintenance	4
5	bus and excluding the "maintenance processors" from further	5
6	access over the bus.	6
7		7
8	Boxes may be moved into a running partition only by the MCP	8
9	executing in that partition, using the MCP's ACQUIRE command.	9
q	During this acquisition, the system interface controls in the	10
1	boxes currently in the partition will be updated to	[1]
2	acknowledge the existence of the incoming box, and the system	
3	interface controls in the incoming box will be updated to	[28
4 5	reflect the partition's membership. The PID in the incoming	12
2	box will be set to match the partition number. Similarly, a box may be removed from a running partition only by the MCP	13
6 7	executing in that partition, using the MCP's FREE command.	110
8	During that process all boxes remaining in the partition will	115
9	have their system interface controls updated such that they	10
d	ignore the outgoing box.	20
1	•	<u> </u>
2		22
:3	SOFT CONFIGURATION	23
4		24
:5		25
6	Soft configuration is a software function that allows control	. 26
7	over how the hardware resources are partitioned into systems	27
8	and how each system's memory is partitioned into address	28 29 30
.9	spaces. Since the B7900 hardware has much greater	29
<u>'</u>	architectural flexibility than any previous machine, extensive	
5 1	changes to the soft configuration mechanism were required.	3
2	The SYMBOL/CONFIGURATION file is the human interface to the	33
34	soft configuration mechanism. This file is created or	34
35	modified to define the possible configurations of the hardware	Kr.
6	resources. The SYMBOL/CONFIGURATION file is converted into a	35
37	SYSTEM/CONFIGURATION file by the utility program	37
8	SYSTEM/CONFIGURATOR.	38
39		38
10	SYSTEM/CONFIGURATION is the MCP's interface to the soft	40
11	configuration mechanism. This interface is established	4
2	through the ODT CF command. Once these files have been	42
3	created, and the SYSTEM/CONFIGURATION file has been attached	43
4	through the CF command, actual reconfiguration is done through	44
5	the ODT RECONFIGURE command. Reconfiguration can also be	45
6	performed from the Loader by using the LOAD CONFIGURATION and	46
1	RECONFIGURE commands. The syntax and semantics of the CF and	47
	RECONFIGURE commands are specified in the Operator Display	48
9	Terminal (ODT) Reference Manual (Form # 5011687).	49
0		50 5
1 2 3 4 5 6 7 8	DATA COMMUNICATIONS	5
3	DATA COMMUNICATIONS	5
<u>a</u>		5.
5	The B7900 Data Communications Subsystem is substantially	
d	different at the hardware level from B7700 and B7800 (DCP)	بر 8
7	data communications. In place of the DCP and Adaptor Cluster	5 5 5
8	modules, the B7900 uses the Network Support Processor (NSP)	5
9	, — — — — — — — — — — — — — — — — — — —	5: 5: 6:
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3		з
14	and Line Support Processor (LSP) modules.	4
2	The NSP and the LSP are Data Link Processors (DLPs) that	þ
17—	communicate with the system through the HDU. An LSP can	— ე
8	support up to 16 full or half-duplex data comm lines, and an	8
8	NSP can control up to eight LSPs with a maximum of 96 lines.	9
10		1
11	A Network Definition Language, called NDLII, was developed for	1
[12]	use with this new hardware. NDLII is described in the	<u> </u>
13	B5000/B6000 Series NDLII REFERENCE MANUAL (form no. 5011828).	1
12	This document also describes the logical partitioning of data comm functions between the NSP and the LSP.	- [
19	Commit functions between the NSF and the LSF.	닉;
17	The SOURCENDLII symbolic provides an example of how NDLII	1
18	programs are written. In order to provide a compatible	1
19	interface to an MCS, certain NDLII programming conventions	\neg
20	must be followed. The SOURCENDLII symbolic contains numerous	1 1 2 2
21	comments explaining these conventions in detail.	2
22		2
29	In order to initialize an NSP, a NIF file and firmware file must be provided. A standard firmware file called	2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 4 4 4 4
[] —	FIRMWARE/NSP is provided. The NIF file is provided by the	— "გ
29	user by compiling a source NDLII program, such as the example	5
27	SYMBOL/SOURCENDLII. The file name of the NIF must have "NIF"	5
28	as the last node of its identifier. If <prefix>/NIF is the</prefix>	$\overline{}_2$
29	NIF file, the MCP creates an auxiliary file <prefix>/DCPCODE</prefix>	2
30	when the NSP is initialized with the NIF for the first time.	з
31		В
32	The ID (Initiate Datacom) ODT command is used to initialize an	В
23	NSP, interrogate or alter the setting of various data comm options and direct commands to the DCCONTROL process.	
35	operions and diffect commands to the becomme process.	2
36	One of the functions that can be initiated through the ID	3
37	command is data comm auditing. A program, SYSTEM/DCAUDITOR,	— _{[3}
38	can be used to analyze the files produced during the auditing	В
39	process.	<u>_</u> 3
40		4
41	A dump of the local memory of a specified NSP can be requested	4
13-	through the DUMP option of the ID command. The file produced can be analyzed with a program, SYSTEM/NSPDUMPANALYZER.	٦,
	can be analyzed with a program, STSTEM/NSPDOMPANALTZER.	G
45	A report of the network configuration can be obtained through	4
12 13 14 15 16 17 18 19 22 22 22 22 22 22 22 22 22 22 22 23 33 3	the DCSTATUS utility.	− 4
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6	B5900 HARDWARE OVERVIEW .	6
7		77
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0	The DECCO control process for any three controls are controlled to the control of	6
9	The B5900 central processing unit represents an architecture	Ta
10	based on a series of fully microprogrammed function processors	110
11	supported by a multi-bus structure. Despite the simplicity of	14 -
10	its internal operation the B5900 is fully code compatible with	14
12	The riter at operation the 65500 is fully code compatible with	411
13	all other large systems.	[13
14		114
15	The processor is divided into five main areas that operate concurrently. These modules are serviced by two high-speed	141
46	consumpantly. These wedyler are conviced by the bigh proof	423
10	Concurrently. These incoures are serviced by two high-speed	113
17	communication buses that are are capable of simultaneous data	11
18	transfer (see figure 1-21).	118
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3 4			2 3 4
5 6	+		5 6
7 8 9	MEMORY CONTROLLER		7 8 9
10	+	-	10
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14	+	======+ MICRO MASTER	14
15 16	++	+===+ PROCESSOR	15
17 18	PROGRAM CONTROLLER		17 18
19 20	† 	++	19 20
21 22	++ +=	======+ MESSAGE	21 22
23 24	+	LEVEL INTERFACE	23 24
25 26	DATA	+===+ PROCESSOR	25 26
27 28	PROCESSOR	+ 0 1 2 3	27 28
29 30		 	29 30
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33	Figure	1-21. B5900 System	33
35 36			35
37	** ** ** ** ** ** ** ** ** ** ** ** **		37
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5	BUS STRUCTURE	4 5 6
7 .	There are two major buses on the B5900, the Main Data Bus (M-Bus) and the Control Bus (C-Bus). The M-bus is 52-bits	7
10	wide to allow the movement of one word (48 data-bits, 3 tag-bits and 1 parity-bit) through the system at high speed.	9
11	The C-Bus is 30-bits wide and is used by the Micro Master	'i'
12	Control processor to control the other modules in the CPU.	1:
13 14	MICRO MASTER CONTROL PROCESSOR	1. 1. 1.
15 16	This is the master processor designed to execute the large	16
17	system instruction set. It is a micro-programmed processor	16 1 18
18	that guides the other processors through the execution of an	18
20	instruction. This is done by addressing commands to a specific CPU component via the C-Bus.	15
21	or a companient via the a bag.	20
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 40 41 42 43 44 45 46 47 48	PROGRAM CONTROLLER	
23	This processes is designed to independently decade	<u>þ</u> :
55	This processor is designed to independantly decode instructions for the Micro Master Control processor as well as	2.
26	work directly with the Memory Controller to fetch additional	26
27	program words.	2: 2: 2: 2: 2: 2: 2: 3:
28	DATA PROCESSOR	25
30	DATA PROCESSOR	23
31	This unit is responsible for the actual arithmetic and logical	3
32	processing done on the B5900. It is fed a series of commands	3:
33	from the Micro Master Control processor via the C-Bus.	3:
35	MESSAGE LEVEL INTERFACE PROCESSOR	B,
36	MESSAGE ELVEE INVENTAGE PROCESSOR	30
37	This unit provides an interface between the CPU and the DLPs	3.
38	actually doing the I/O. It will manage up to four MLI ports	3:
40	and is responsible for providing the DLPs with a high speed path to and from memory.	
41	pacification memory.	4
42	MEMORY CONTROLLER	4:
43	The Memory Controller is responsible for providing the system	4:
45	with access to up to 6.2 MB of memory. It also provides the	3 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:
46	pathway to GLOBAL(TM) Memory.	
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6	B6900 HARDWARE OVERVIEW	6 L
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a	The Runnoughs R6900 system is high speed computer system	ام
. 과	The Burroughs B6900 system is high speed computer system derived from the B6800 series architecture. It was the first	الديا
ч	derived from the 86800 series architecture. It was the first	1Q
1	large system to support Universal I/O (UIO) hardware. It	/1 1 i
ıəl	provides reliable high speed processing with a relatively low	40
: 7	provides retrable high speed processing with a relatively low	1:4
3	environmental cost in either floorspace or power.	13
14		14
ᅵᅵ	The system is divided into three major parts, each operating	15
: ≱	The system is divided into three major parts, each operating	
ıq	to provide independant services to maximize system throughput.	16
17	A schematic of the B6900 is shown in figure 1-22.	17
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4 5	++	++	++	4 5
6			++ MEMORY	6
8	CENTRAL +	+ MEMORY		8
9 10	PROCESSOR	CONTROL +	<u>-+ +</u>	9
11	 	 	† <u>+</u>	1
12 13 14	1		++ MEMORY	1
14 15	i ++		ļ 	
15 16 17	MESSAGE LEVEL		++	11 1 1
18 19	INTERFACE		MEMORY	
19 20 21	PROCESSOR		++ MEMORY	11 20
21 22	+-+-+-+-+-+-+ 0 1 2 3 4 5 6 7	† TO †	+	2
23	+-+-+-+-+-+-+	GLOBAL +	-+ ++ 1 1 1	2
24 25		MEMORY	++ MEMORY	
26 27			 	2 2 2
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25 26 27 28 29 30 31 32 33	Figure 1-	22. B6900 System		3
33 34				33
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4	OFNITRAL PROOFCCOR	4
1 2	CENTRAL PROCESSOR	þ
17	The Central Processor is the unit responsible for all program	—წ
8	and MCP code execution. It does all arithmetic and logical	8
9	operators based on the operator strings it is directed to	9
10	execute. The CPU itself is almost identical with the B6800	710
11	CPU. A two words top-of-stack buffer is maintained in the CPU	11
12	to speed operation. Also there is an automatic 1-word code	12
13	look-ahead that is done via the CPU's second port to the	13
14 15	Memory Control. This second path is dedicated to the	114
16	look-ahead function.	-115
17	MEMORY CONTROL	17
18	MEMORI CONTROL	18
19	This unit provides the CPU with access to up to 6.2 MB of high	19
þd	speed memory. It acts as an exchange to allow either of the	20
19 20 21 22 23 24 25 26 27 28 33 33 33 40 41 44 44 44 44 45	two CPU memory request ports with access to up to five memory	21
22	modules. It is the fifth memory module that is the B6900's	22
23	path to GLOBAL(TM) Memory.	23
24	MESSAGE LEVEL INTERFACE PROCESSOR	_ ₂₄
Ka Ka	MESSAGE LEVEL INTERFACE PROCESSOR	25 26 27
67	This processor is responsible for all the management of I/O	27
28	done to and from the DLPs. It handles all main-memory queue	-68
29	manipulation as well as provides a path to memory for the DLP	29
βd	when data transfer is required. The MLIP must share the CPU's	28 29 30
βıΓ	data path to memory, however, it is designed to work in a	_β1
32	"burst" mode so as to make the memory accessing as efficient	32
<u> </u>	as possible. The MLIP is capable of handling up to 8 MLI	_33
54	ports. All input/output, both peripheral and datacom, is managed by the MLIP independantly of the CPU.	34
2	managed by the METE independently of the Cro.	35 36
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5		5
6	B5900/B6900 I/O OVERVIEW	6
7		7
8		8
9	This section deals with the technical aspects of the	9
10	B5900/B6900 Universal Input Output (UIO) hardware operation.	.14
1 1	The details of both the hardware and software operation of UIO	1
12	are extremely well covered in the manual "OVERVIEW OF PHYSICAL	1
13	I/O ON B5900/B6900 SYSTEMS" (form #5013758). This section will	1
14	simply review the main concepts behind UIO.	[1-
14 15		1
16		11
[17]	MAIN COMPONENTS	įt:
18		
19		1:
2 0	Below are listed the main components of the UIO system	Į2(
21	hardware:	2
22		2:
23	1. Message Level Interface Processor - That part of a	į:
24	B5900/B6900 mainframe that is given the task of managing	24
25	the I/O by the central processor. Its duties will include	25
26	I/O queue handling, path queue handling, data transfer to	į pe
27	and from memory, DLP initiation and generating an	2:
28	interrupt to flag the CPU to handle all queued results.	· 28
29		129
30	2. Message Level Interface - A standard hardware/software	
31	protocol to allow the development of an I/O subsystem	3.
32	that is independant of the characteristics of a given	33
33	mainframe.	33
34		3
35	3. Line Expansion Module - A device to allow a Message Level	3
36	Interface port to connect to up to 7 I/O Bases rather	36
37	than just one.	S.
20	4 I/O Bose A physical cond core to bours in to 0 N.S.	St
[2]—	4. I/O Base - A physical card cage to house up to 8 DLPs.	33
13	5. Data Link Processor - A specialized microprocessor with	11 12 11 11 11 12 20 22 22 22 22 23 33 33 33 33 33 34 40 41 42 44 44 44 45 46 46 47 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48
		[4
16 17 18 19 20 21 22 22 24 25 26 27 28 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	sufficient intelligence and storage to complete 1 entire I/O to a given peripheral. DLPs are designed to interface	
	to specific peripheral devices and represent the	G:
	connection port of the mainframe to the peripheral.	4
[a	connection port of the maintraine to the peripherar.	
[7]		<u> </u>
Z g	I/O INITIATION	<u></u>
48 49	4/0 1111-1411-1411	
EA	·	
61	The general flow for I/O on a UIO system is as follows:	F
50 51 52 53 54 55 56 57 58	the general from to. 1/6 on a dre dystem to de fortions.	
53	1. The CPU formats an IOCB (I/O Control Block). This data	5: 5: 5: 5: 5: 5: 5: 5: 6:
54	structure totaly defines the nature of the I/O to be done	,
55	including unit number and location, I/O control bits,	
56	buffer location, I/O queue locations and reserved space	5
57	for I/O results and times.	<u> </u>
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4	2.	The processor executes the CUIO operator passing it a	4
5		descriptor to the IOCB.	5
17-	3.	The MLIP links the IOCB into the unit's command queue.	
8			8
13	4.	If this is the first I/O in the command queue then the unit's DLP is checked to see if the I/O can be initiated.	9
11		If it can, the IOCB is delinked from the command queue	. 11
12		and the DLP is passed the IO to initiate.	12
14	5.	If the unit is sharing a path with other units and the	14
15		DLP is busy then the MLIP will link the unit's entire	15
16 17		command queue into the specified horizontal queue. The command queue will remain in this state until some other	16 17
18		unit on the same path completes its command queue,	18
19		freeing the DLP.	19 20
20 21 22 23 24 25 26 27 28 29 30 31 32 33	6.	When the MLIP senses that an I/O has completed, it links	21
22		the IOCB into the designated result queue. If the	22 23
24		interrupt bit is on in the IOCB's MLIP control word, or if an I/O exception occurred or if the command queue is	23 24
25		empty then the CPU will be given an I/O finish interrupt.	25
26 27		If the command queue is empty then the MLIP will also check the unit's horizontal queue to see if there is	25 26 27
28		another command queue queued for activation.	28
29		there were belong to the felt of the felt of the control of the co	29
31	7.	Upon receipt of an I/O finish interrupt the CPU will process the entire result queue. For each IOCB the	28 29 30 31 32 33
32		following will be done:	32
33		- delink from result queue	33
35		, , , , , , , , , , , , , , , , , , ,	34 35 36
36	·	- perform exception handling if necessary	36 37
34 35 36 37 38 39		- perform all statistical accounting	38
39			39
40 41		- wake up any task waiting on the I/O's completion	41
42			42
43			43
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PROGRAM DESCRIPTION EXAMPLE 23 00073100 13 PROCEDURE DIRECTORY FORMAT. 24 00076100 14 TYPICAL ENTRY	1 1	BEFORE FIRST CALL ON INTRINSIC		11
PROCEDURE DIRECTORY FORMAT. 24 00076100 14 TYPICAL ENTRY. 25 00080700 15 PROCEDURE DIRECTORY EXAMPLE 26 00082110 16 LOAL DIRECTORY EXAMPLE 27 00092800 18 PPB EXAMPLE 29 00092800 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	12	AFTER FIRST CALL ON INTRINSIC		12
TYPICAL ENTRY. 25 00080700 15 PROCEDURE DIRECTORY EXAMPLE 26 00082110 16 LUCAL DIRECTORY EXAMPLE 27 00085500 17 PPB EXAMPLE 29 00092800 19	13			13
PROCEDURE STRECTIONY EXAMPLE	14	PROCEDURE DIRECTORY FORMAI		114
LOCAL DIRECTORY EXAMPLE 27 00055500 17 PPB EXAMPLE 29 00092800 18 20 21 22 23 24 25 26 27 27 27 28 29 30 31 31 32 33 34 44 45 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48	15	TYPICAL ENTRY		
PPB EXAMPLE	16 17			
19 20 21 21 22 23 24 24 25 26 26 27 28 29 30 30 31 31 34 34 34 35 36 37 38 38 38 38 44 44 44 44 44 44 44 44 44 44 44 44 44	1 // 18			1
20	19	FFD LAMPIEL	00092800	18
23 24 55 67 7 7 88 89 90 91 91 92 93 94 95 95 96 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98	bd.			ho lia
23 24 55 67 7 7 88 89 90 91 91 92 93 94 95 95 96 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98	<u> </u>			b 1
23 24 55 67 7 7 88 89 90 91 91 92 93 94 95 95 96 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98	20 21 22			<u> </u>
29 30 31 31 32 32 33 33 34 34 35 35 36 36 36 37 37 37 37 37 37 38 39 40 40 41 41 42 42 42 42 42 42 42 42 42 42 42 42 42	23			23
29 30 31 31 32 33 33 34 34 35 35 36 36 36 37 37 37 37 38 39 40 41 41 41 42 42 43 44 44 45 46 46 47 47 47 48 48 49 49 50 50 51 51 52 53 55	24			24
29 30 31 31 32 33 33 34 34 35 35 36 36 36 37 37 37 37 38 39 40 41 41 41 42 42 43 44 44 45 46 46 47 47 47 48 48 49 49 50 50 51 51 52 53 55	25			25
29 30 31 31 32 33 33 34 34 35 35 36 36 36 37 37 37 37 38 39 40 41 41 41 42 42 43 44 44 45 46 46 47 47 47 48 48 49 49 50 50 51 51 52 53 55	26			26
29 30 31 31 32 33 33 34 34 35 35 36 36 36 37 37 37 37 38 39 40 41 41 41 42 42 43 44 44 45 46 46 47 47 47 48 48 49 49 50 50 51 51 52 53 55	27			27
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	28			28
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	29 30			29
32 33 34 35 36 37 38 39 40 41 42 43 44 45 56 67 68 69 70 71 75 77	3 I			
3 3 3 4 3 5 5 5 5 7	32			82
34 35 36 37 38 39 39 40 40 40 41 42 43 44 56 67 68 69 69 69 69 69 69 69 69 69 69 69 69 69	33			33
35 36 37 38 39 39 40 41 41 42 34 45 46 47 48 49 49 49 49 49 49 49 49 49 49 49 49 49	34	*		34
40 41 42 34 45 46 67 78 89 90 90 91 90 91 90 91 90 91 90 90 91 90 90 90 90 90 90 90 90 90 90 90 90 90				. 35
40 41 42 34 45 45 66 77 89 90 90 91 90 91 90 91 90 91 90 90 91 90 90 90 90 90 90 90 90 90 90 90 90 90	36			36
40 41 42 34 45 46 67 78 89 90 90 91 90 91 90 91 90 91 90 90 91 90 90 90 90 90 90 90 90 90 90 90 90 90	37			37
40 41 42 34 45 46 67 78 89 90 90 91 90 91 90 91 90 91 90 90 91 90 90 90 90 90 90 90 90 90 90 90 90 90	38			38
1				39
42 43 44 45 5 6 7 8 9 9 1 1 2 2 2 3 4 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	40 4 1			MO A
43 44 55 66 77 89 90 11 20 51 20 51 55 66 67	42			41
4 45 45 46 45 46 45 46 46 46 46 46 46 46 46 46 46 46 46 46	43			
5 45 6 7 46 7 47 8 9 0 49 0 50 1 51 2 52 3 4 55 6 55	44			
6 46 47 47 48 48 49 50 50 50 50 50 50 50 50 50 50 50 50 50	45			
7 47 48 48 49 49 50 50 50 51 51 51 52 52 52 55 55 55 55 55 7	46			
49 50 50 1 51 2 52 3 53 4 54 56 67	47			47
50 1 51 2 52 3 53 4 54 5 55 6 56	48		•	48
52 53 54 4 54 55 56 77	49			49
2 52 3 53 4 54 5 55 6 56 7 57	50			50
52 53 54 55 55 56 7 7	51			51
5 53 4 54 5 55 6 55 7 57	52			52
# 54 5 55 6 56 7 57 8 58	P3	•		53 = 4
5 56 56 7 57 58 58 58 58 58 58 58 58 58 58 58 58 58	55		· · · · · · · · · · · · · · · · · · ·	D4
9 7 8 57	E d			55 55
58 58	67			57
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9) 59	59			59
	led.			60

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1	2		11
2 3	Feature - Large Systems Code File Format For 3.5.0 Release	00010504	2
4			4
6	INTRODUCTION	00010555	6
7			7
9	This document describes the format and content of the code file	00010800	8
10	objects, as emitted by the Large Systems compilers. The information	00010900	
1 1	was derived from the WRAPUP procedures in the compilers,	00011000	11
12	SYMBOL/BINDER and the MCP global section. Where applicable,	00011100	
13	references to pertinent sequence numbers and symbolics are noted.	. 00011300	1
15	The description is organized as follows:	00011500	1
16			1
17	OPERATING SYSTEM INTERFACE	00011600	1
18	CODE FILE DECLARATION	00011700	
20	GENERAL CODE FILE LAYOUT SEGMENT ZERO LAYOUT WORD AND COMPILERINFO	00011800 00011900	ון
21	SEGMENT DICTIONARY	00012000	É
22	FILE PARAMETER BLOCKS (FPBS)	00012100	2
23	COMPILER/INTRINSIC INTERFACE	00012200	12
24	CODE FILE BINDER INFORMATION BINDER CONVENTIONS	00012300 00012500	
26	PROGRAM DESCRIPTION	00012500	6
27	PROCEDURE DIRECTORY	00012700	Ē
28	LOCAL DIRECTORY REFERENCES	00012800	2
29	FPB/PPB RUN-TIME INFORMATION	00013000	12
BU	APPENDIX A - SUPPLEMENTARY BINDER INFORMATION	00013200	
32	AFFENDIX A - SOFFEEMENTARY BINDER INFORMATION	00013200	3
33			3
34	OPERATING SYSTEM INTERFACE	00013400	3
35			3
37	Large Systems compilers are declared as real procedures with one	00013700	3
38	array parameter.	00013800	3
39			3
40	REAL PROCEDURE ALGOLCOMPILER (SHEET); ARRAY SHEET [*];	00013900	4
42	The SHEET array is passed in from the MCP, and contains a skeleton	00014200	Ľ.
18	segment zero. This skeleton will be used by the compiler in	00014300	11 11 12 22 22 22 22 22 22 22 23 33 33 33 33 34 44 44 44
44	constructing the real segment zero for the compiled code file. The	00014400	4
45	SHEET passed contains values from WFL control cards (e.g.,	00014500	
46	PRIORITY=75, SHEET [9]=75) and file-equation control information (e.g., ?FILE LINE(KIND=REMOTE)). SHEET [0] contains the offset in	00014600 00014700	Ľ
48	the SHEET to the variable (file-equation and program parameter)	00014700	Ľ.
49	information.	00014900	4
50 51 52 53 54 55 56 57 58 59			5 5 5 5 5 5 5 5 5 5 5 5
54 53			,
54			5
55			5
56	·		5
57			5
59			[5]
60			ie ie

- 1			
2	Feature - Large Systems Code File Format For 3.5.0 Release	00010504	2
3			3
5	CODE FILE DECLARATION	00015000	4 5
6	Code files are declared in the compilers as disk files with a	00015300	6
7	MAXRECSIZE of 30 words (1 segment).	00015400	7
8 9			18
1g	A typical declaration is:	00015600	9
11	FILE CODE (MAXRECSIZE=30,	00015700	1
12	BLOCKSIZE=270,	00015900	ji:
13	EXTMODE=SINGLE,	00016000	1:
14	FLEXIBLE=TRUE,	00016100	14
16	KIND=PACK, PACKNAME="DISK.", MYUSE=OUT,	00016200 00016300	15
17	AREAS=40.	00016400	17
18	AREASIZE=504,	00016500	118
13 14 15 16 17 18 19 20 21 22 22 22 23 24 22 25 33 33 33 33 33 33 33 34 33 34 33 34 33 34 33 34 33 34 33 34 33 40 40 40 40 40 40 40 40 40 40 40 40 40	BUFFERS=2,	00016600	19 20
20	SAVEFACTOR=999);	00016700	20
22	In addition, these attributes and certain others are checked at	00016725	2:
23	compiler initialization to prevent incorrect or mischievous	00016730	23
24	file-equation.	00016800	23
25			25 26 27
26	The AREASIZE attribute is defined as CHUNK in some of the compilers	00017000	26
28	and represents the disk rowsize. The compilers use this to ensure code segments are kept within a single disk row (to avoid problems	00017100 00017200	
29	with PRESENCEBIT).	00017200	28 29 30
30			30
3 1			3: 32: 33: 34: 35: 36: 37: 38: 38:
32	GENERAL CODE FILE LAYOUT	00017600	33
34			
35	The following chart illustrates the contents of the code	00017802	35
36			
37	The order of the various parts of the code file is not fixed and	00017806	37
39	varies between compilers. Only segment zero is fixed. file, which will be described herein.	00017900 00017905	Pro-
io	with be described herein.	00017303	
1 1			4
12			4:
13			4:
15			4. 4!
13 14 15 16			
47			46
18			. 48 . 49
19			
51			5: 5: 5: 5: 5: 5: 5:
52			5
i3			5 :
4			5
) C			5
, 7			5 5
49 50 51 52 53 54 55 56 57 58			5:
59			5 5 6
5O			60

	4	Systems Code File Format For 2 F A Release	00010504	.FLAG 5
	Feature - Largi	e Systems Code File Format For 3.5.0 Release	00010504	
	GENERAL CODE FILE LA	YOUT	00019601	
			00019602	
	SEGMENT ZERO	Directory of code file	00019603	
		and accumulator of	00019604	
	!!!	run-time information	00019605	
			00019606	
			00019607	
	! FPB !	An attribute list	00019608	
	(file parameter	describing files	00019609	
	block)	declared in program	00019610	
		account of the program	00019611	
-			00019612	
	! OBJECT CODE !	Actual object code to be executed	00019613	
	55520: 5652	Actual ediffer course to be executed	00019614	
			00019615	
			00019616	
	! OBJECT CODE !	Object code. The code segment	00013010	
	REFERENCES	may also contain references	00019618	
	NEI ENLINCES	(code markers for binding)	00019619	
	1	(Sour markers for binding)	00019619	
			00019621	
	LOCAL	Description of local variables	00019622	
	DIRECTORY	for binding	00013022	
	DIRECTORY	ror binaring .	00019624	
	I I		00019624	
			00019626	
	PROCEDURE	List of procedures	00019627	
			00019627	
	DIRECTORY	(blocks in the program)	00019628	
	 i	used for binding	00019629	
		•	00019630	
	L WALLE ADDAY	Property data annual property		
	VALUE ARRAY	Preset data arrays, pools	00019632	
	i i	·	00019633	
			00019634	
	T 5500004M		00019635	
	PROGRAM	Directory of binding information	00019636	
	DESCRIPTION	in code file	00019637	
	<u></u>		00019638	
			00019639	
	l D4 CTACK I	Commont distingent on D[1]	00019640	
	D1 STACK	Segment dictionary or D[1]	00019641	
	IMAGE	stack image in 64-bit format	00019642	
	i		00019643	
			00019644	
	1 500/000	C '	00019645	
	FPB/PPB	Run-time file/program information	00019646	
	_ i	(indicated by SHEET [0])	00019647	
			00019648	
			00019649	
			00019650	
_			00019651	
			00019652	

1 2		Feature - La	rge Systems	Code File For	5 rmat For 3.5.0 Release	00010504	1 2
3			SEGME	00021100	—¦3		
5					5		
=====	This	section outli	nes the cont	00021400	- 6		
8				compiler. The MCP defines	00021500	8	
9		5043000 descri			Somp Transit Trib that Got Tribo	00022000	9
10							10
11	-						11
12			COMPILER			00022455	12
13	WORD	DEFINITION	SUPPLIED	FORMAT	COMMENTS	00022460	13
13 14 15	0	~~~~~~~			Displacement in the	00022465 00022600	14 15
					SHEET of PPB/FPB	00022600	- ¦è
16 17 18					run-time information,	00022640	1
18					to be written by	00022660	lis
19		· · · · · · · · · · · · · · · · · · ·	<u> </u>		the compiler into	00022680	15
19 20 21 22 23 24 225 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 44 45					the code file. This	00022700	17 18 19 20 21 22 23 24 25 26 27
21					location is zeroed	00022720	2·
22					by the compiler.	00022740	722
23						00022900	23
24	1	LIBWORD	YES		Information concerning	00023000	-2:
25					the Library SHARINGCLASS of the	00023020	25
20					codefile.	00023040 00023060	25
5.					CodeTite.	00023060	-5,
20	2	ENTRYPOINT	YES	Integer	Stack address of the	0000000	20
30	~	LIVINI OZIVI	123	integer	outer block PCW	00023300	30
31					in the segment	00023400	28 29 30 31 32 33 34 35 36 37 38
32					dictionary. Used	00023450	3:
33					by the MCP to	00023500	3:
34					construct a phony RCW	00023550	34
35					which allows NORMALBOU	00023600	35
36					to exit into the JOB.	00023650	—\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
37	3	DOLL OUT	VEC	Intoon	Last code file record	00023700 00023800	9
20	3	ROLLOUT	YES	Integer	(segment) number;	00023850	30
[]					i.e., size of code	00023830	—Ğ;
[4]					file. Used for	00023920	40
42					RESTART. See DOCTOR	00023940	4:
43				 	at 35197810. VERSION	00024000	- 4:
44					for MCP.	00024003	44
45						00024100	45
46	4	DATE	YES	Integer	Set to TIME(5) at	00024200	46
47					at compile wrapup.	00024300	4
48	F	TTUE	VEC	Intogo	Sot to TIME(11)	00024400 00024500	<u>ال</u> م
E 2	5	TIME	YES	Integer	Set to TIME(11)	00024500	424445444556666666666666666666666666666
E4					at compile wrapup.	00024320	Ę
<u>6</u> 2							— <u>F</u> :
53							5
54							5
55				······································			5:
56							5
57							5
49 50 51 52 53 54 55 56 57 58 59							5
59 66							þ.
oU.							Ю

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6	Feature - Large	Systems	Code File Form	mat For 3.5.0 Release	00010504	
		COMPILER			00024580	
WORD		SUPPLIED	FORMAT	COMMENTS		
					00024600 00024620 00024800 00024804 00024806 00024808 (00024810 00024812	
6	SOEXECUTEINFO	YES	Word		00024800	
	NONEXECUTABLEF		[47:1]	1 means this code file	00024804	
				is not excutable.	00024806	
	NONEXECUNSAFEF	VFC	[45:1]	If NONEXECUTABLEF is	(00024808	
	NONEXECONSALE	123	[45.1]	1. then this field	00024812	
				indicates why the code	00024814	
	******			file is nonexecutable.	00024816	
				A 1 means the file is	00024818	
				not executable because	00024820	
				it contains unsafe	00024822	
				code. A O is used in	00024824	
				all other cases.	00024826	
	NONEYEOMAGUITNEE	VEC	[44.40]	Familes not supported	00024828 00024830	
	NONEXECMACHINEF	165	[44:19]	Familes not supported by this code file.	00024830	
				For each machine,	00024832	
				O (false) means that	00024836	
				the code file will run	00024838	
				on the machine, and	00024840	
				1 (true) means it will	00024842	
				not. The bits in the	00024844	
				field are indexed	00024846	
				with the following,	00024848	
			· · · · · · · · · · · · · · · · · · ·	where 0 implies	00024850	
				(bit 26).	00024852	
Beso	OID = 2				00024856	
B6900					00024858	
	OID = 4				00024860	
ASID					00024862	
A9ID					00024864	
A 13II					00024866	
	OID = 11				00024868	
	OID = 12 OID = 13				00024870	
	OID = 13 OID = 14				00024872 00024874	
6/90	010 - 14				00024074	
			· · · · · · · · · · · · · · · · · · ·			

		Feature - Large	e Systems	7 t For 3.5.0 Release	00010504	
			COMPILER			00024880
	WORD	DEFINITION	SUPPLIED	FORMAT	COMMENTS	00024882
						00024884
		PARAMCOUNTF	YES	[19:20]	Number of formal	00024886
					parameters.	00024888
						00024890
		· · · · · · · · · · · · · · · · · · ·		[46:1]	Unused.	00024892
	h			_		00024894
	3 81	PARAMCOUNT	YES	Pars	Number of parameters	00024900
				Noneyes	to the main program.	00025000 00025100
				Nonexec [47:1]	NONEXEC=1 means this	00025100
				[47:1]	code file is	00025300
·					nonexecutable as	00025420
				_	Aa unit.	00024894 00024900 00025000 00025100 00025300 00025400 00025420 00025420 00025500 00025500 00025700 00025720 00025720 00025800 00025800 00025900 00025900 00026900 00026050 00026050 00026100 00026200 00026400 00026450 00026500 00026650 00026600 00026650 00026600 00026600 00026600 00026700 00026800 00027200 00027220 00027220 00027280 00027300 00027300 00027300 00027300 00027360 00027500 00027500 00027500
				,		00025500
	7	CORRESTIMATE	YES	Integer ,	If SHEET [7] is not	00025600
	•			D. COL	zero, use supplied	00025700
		30% code		wips , soul	core estimate (from	00025720
			N	(No S	?CORE card); else	00025740
		707 1-1	<u>.</u> روس	, W > 4	insert compiler	00025800
		10 to have		الاور ٥	generated core	00025850
					estimate.	00025900
						00025950
	8	COMPILERINFO	YES		See section on	00026000
					COMPILERINFO	00026050
	_					00026100
	9	PRIORITY			MCP supplied from	00026200
					PRIORITY card	00026250
	40	MAYDDOOFCCTIME			MCD averalind from	00026300
	10	MAXPROCESSTIME			MCP supplied from PROCESSTIME card	00026400 00026450
					PROCESSTIME Card	00026430
	11	MAXIOTIME			MCP supplied from	00026600
		HANTO LINE	*		IOTIME card	00025000
						00026700
	12	FPB	YES	Record number		00026800
				& length=	**************************************	00027000
				[39:20]	<pre>If SHEET[O] NEQ O,</pre>	00027200
				-	a file parameter	00027220
					or program parameter	00027240
					block is passed	00027260
					in the SHEET	00027280
					starting at [SHEET[0]]	00027300
					If it exists, the	00027320
					compiler writes it out	00027340
					to the code file. See	00027360
					DOCTOR at 35197600.	00027500
						00027600
						

		Feature - Larg		Code File Format F	or 3.5.0 Release	00010504	
			COMPILER			00027840	
	WORD	DEFINITION	SUPPLIED	FORMAT	COMMENTS	00027860	
						00027880	
	13	OPTION			Standard MCP option	00027884	
					word. See MCP at	00027886	
					01305000 for format.	00027888	
						00027900	
	14	SODEIMPLEMENTIN	NFO YES	Word	Miscellaneous	00028000	
					deimplementation	00028100	
					warnings will be	00028102	
					assigned specific	00028104	
					bits. The appropriate	00028106	
					bits will either	00028108	
					be set by the MCP or	00028110	
					by a compiler.	00028112	
					by a comprise.	00028112	
	T.	nie wood will be	. ucod cal	by 2 7 commilers	2 5 2 6 and 2 7 MCD	00028120	
					3.5, 3.6 and 3.7 MCP,	00028130	
	ar	nd 3.5, 3.6 and	J./ Binger			00028140	
	-				laces often 0.7	00028150	
				able starting 4 re	rieases after 3.7	00028160	
	(0	currently estima	ated to be	4.1).		00028170	
	4 ==	CTLOUCTEE	VE5	Total a super	Charlesatimate	00000000	
	15	STACKSIZE	YES	Integer	Stack estimate.	00028300	
					If SHEET [15]	00028320	
					EQL O, use 512 else	00028350	
					SHEET [15].	00028360	
				·		00028400	
	16	PROGRAM				00028450	
		DESCRIPTION	YES	Record number	Used with paramcount	00028454	
				& length	for parameter checking	00028510	
1 1				[39:20]	for parameter checking (see external reference of DOCTOR). Also used for binding	00028555	
\$ 5					reference of DOCTOR).	00028600	
3 %					Also used for binding	00028650	
2					(see section on binder	00028660	
र्व					information).	00028680	
6					THE OTTIME COST ()	00028690	
<u> </u>	17	INTRINSICTABLE			For intrinsics code	00028700	
\ •	• • • •				files. Points to	00028702	
					"INTRINSICINFO" array.	00028705	
7					THEIR TRADECTION O CHICAY.	00028750	
(10 '	DIDESC	YES	Record number		00028750	
/	10 l	ן אוים	163			00028860	
				& length	Address in code 5:10	00028860	
				[39:20]	Address in code file		
					of 64-bit D1 stack	00028950	
					(segment dictionary)	00028960	
					image. L <u>ength</u> is	00028980	
					number of 64-bit	00029000	
					tagged words (see	00029002	
					section on segment	00029004	
					dictionary).	00029006	
					_	00029010	
						00029150	
				14:50 rel	ment ou		
				a on o	a retit		
				14.	00/0/		
				•	(A -		

	Feature - Large Systems Code File Format For 3.5.0 Release	9 00010504
	COMPILER	00029180
WORE		00029200
#OKE	-	00029220
19		00029220
19		
	allocated by	00029250
	compilers. FORTRA	
	and PL/I includes	00029270
	the D3 size too.	00029280
		00029290
20	WSLMIT Working set core	00029300
	limit.	00029350
		00023000
21	DIESTIMATE	00029500
21		
	Working set code estimate	00029600
22	RESTARTCOUNT	00029700
	Checkpoint/restart use (?RESTART card)	00029800
1		
23	EXECUTION COUNT	00029900
		00030000
24	D1_WSAVRG	00030100
		00030200
25	RUNWSAVRG	00030300
25		
	Used for working set statistics, average amount of core and d	
	See UPDATECOREEST in MCP at 35370000.	00030600
26	LOGSTART	00030700
	For restart. See DOCTOR at 35147910	00030800
27	SKELSTACK	00030900
	For restart. See DOCTOR at 35197825	00031000
28	PROGRAMUNIT	00031100
	DESCRIPTOR YES Record number	00031104
	& length	0003110
	[00.20]	
	Unit Directory if	00031120
	the code file cont	
	one or more progra	
	units compiled und	
	the LIBRARY compil	er 00031128
	control option.	00031130
	25 00 610111	00031200
		00001200
······································		
		the state of the s

10 Feature - Large Systems Code File Format For 3.5.0 Release	00010504
COMPILER	
	00031220
WORD DEFINITION SUPPLIED FORMAT COMMENTS	00031230
	00031240
29 SYMBOLICDESC YES Record number	00031300
& length	00031310
[39:20] Points to	00031314
SYMBOLICINFO. Used	00031315
automatic separate	00031316
compilation and	00031320
binding (ALGOL	00031340
code files only).	00031360
SEGMENT ZERO EXAMPLE	00032153
SEGMENT NO. OOO	00032410
	00032414
0000000000 0000000000 00000000000000000	00032500
> 0000000000C 0000050431C5 0004E38B7F8C	00032600
	00032650
6 00000000000 000000005A7 000000020600 .	00032700
9 00000000000 00000000000 00000000000	00032800
,	00032900
VL 0000060000B 00000000000 00000000000	00033000
15 00000000200 000001200009** 000000000000	00033100
1,5 555555555555	00033150
1\$ 0000060000A***0000000009 00000000000	00033190
21 0000000000 0000000000 00000000000	
	00033300
24 0000000000 0000000000 00000000000	00033350
	00033400
00000000000 00000000000 000000000000000	00033500
ENTRACTOR OF STREET	00033600
* ENTRYPOINT AT D1[2]	00033700
** PROGRAM DESCRIPTION AT RECORD # 9, 18 WORDS LONG	00033800
*** SEGMENT DICTIONARY AT RECORD # A, 6 WORDS LONG	00033900
	·

2	11 Feature - Large Systems Code File Format For 3.5.0 Release	00010504	1 2
5 4 5	COMPT! EDINES EXAMPLE	00004400	. 4
7	COMPILERINFO EXAMPLE	00034100	
8 9			8
9 <u> </u>		00037301	9
11		00037302	110
12	47 46 45 44 43 42 41 40 31 23 15 9	00037303	1,
	47 46 45 44 43 42 41 40 31 23 15 9 LANGUAGEF RELEASENUM UNUSED CYCLENUM	00037304 00037305	
1 4	LANGUAGEF RELEASENUM ONUSED CTCLENUM	00037303	13
انظ		00037320	110
16		00037342	116
17		00037344	li i
18	version of the compiler that	00037346	118
19	compiled the codefile.	00037348	19
20		00037360	þo
21	Library capable	00037380	b
13 14 15 16 17 118 19 20 22 22 22 22 22 22 22 22 22 22 23 33 33	PPPrivileged program - avoid usercode pecurity	00037390	22
23	Privileged program	00037400	þ 23
24		00037420	24
25	Not used	00037440	25
26	i i i i	00037460	26
27	DMS Capable	00037480	27
28		00037500	28
29	Control Program 4 Walls Marin	00037520	25
BU	Not used	00037540	
21	iNot used	00037560	13
22	IPC Capable	00037580 00037600	92
34	I TPC Capable	00037800	
35	The version 31.234.567 would be store RELEASENUM = 31.	00037604	39
36	CYCLENUM = 234.	00037606	36
37			37
38	The unused fields contain zeros.	00037620	38
39			39
40			40
41			4 ·
42			42
43	LANGUAGEE	00007000	12 13 14 15 16 17 17 18 19 20 22 25 26 27 28 29 30 33 33 34 35 36 37 38 39 40 41 42 42 43 44 44 44 44 45
44	LANGUAGEF	00037800	14.5
[2]	ALGOL = O JOVIAL = 5	00038000	43
7	COBOL = 1 BETA = 6	00038000	14.
[a	FORTRAN = 2 ESPOL = 7	00038100	ជីន
49	XALGOL = 3 DCALGOL = 8	00038200	
5d	$PL/1 = 4 \qquad BASIC = 9$		E C
51	WFL = 10	00038400 00038450	5
52			50 52 53 54 55 56 57 58 58
53			j 5:
54			5
55			55
56			 56
57			5
58			58
p9			59
bΥ			6 (

12 Feature - Large Systems Code File Format For 3.5.0 Release	00010504
The defines for the COMPILERINFO word are at 05050500, 05034030 in the MCP.	00038700 00038750
,	
·	

[4	13		
2	Feature - Large Systems Code File Format For 3.5.0 Release	00010504	2
5			4
6	SEGMENT DICTIONARY (D1 STACK)	00038900	6
7			7
9		0000000	8 9
10	The segment dictionary generated by the compilers is written to the code file in a special format. Each stack entry is written as a	00039200 00039300	
11	64-bit word. The purpose of this technique is to allow the MCP to	00039300	111
12	perform a "read with tags", when setting up the D1 stack. The hex	00039500	12
13	format of each entry is:	00039600	13
14 15			14
12	AT OO DDDD DDDD DDDD T = TAG	00039700	15 16
16 17	D = DESCRIPTOR BODY OR WORD	00039800 00039900	17
18	A = BINDER INFORMATION FIELD	00039950	18
			19
20	The first two 64-bit entries in the stack image are zero, reserving	00040200	þo
21	space for MSCW/RCW. Segment zero [18] identifies the starting record	00040300	21
22	number [19:20] and the length in 64-bit words [39:20]. The PCW (TAG 7) for the outer block (i.e., the starting point of the program) is	00040400	22
24	generally one of the latter entries in the segment dictionary. The	00040500 00040600	P 4
25	D1 stack address of this PCW is stored in segment zero [2].	00040705	
26			26
27	The high order bit of field A is used as an indication bit for the	00040720	27
28	Binder. Normally, A = 4"0". However, the high order bit of field A	00040725	28
29	is set to 1 in the following two situations.	00040735	29
31	First, in a program that allows or requires an external procedure to	00040745	31
32	be bound in, the high order bit of field A is set to 1 in the entry	00040750	32
33	for the data descriptor (tag 5) that points to the description of how	00040755	33
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	the external procedure and its parameters, if any, were declared.	00040760	22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 36
36	Second, in a separately-compiled procedure that requires access to	00040770	36
37	global variables, the high order bit of field A is set to 1 in the	00040775	37
38	entry for any segment descriptors (tag 3) for code segments that	00040780	38
39	contain references (NAMCs and VALCs) to the global variables.	00040790	89
41	The Binder may also preserve the value of field A after binding the	00040800	4(
42	external procedures to the host so that replacement binding can be	00040805	4:
43	used.	00040890	4:
43 44 45 46 47			44
45			45
47			4(
48			4:
49			49
50			5 0
51			5
52 53			þ
54			5: 5: 5-
55			
56			5! 50 5
57			5
50 51 52 53 54 55 56 57 58 59	•		5: 5:
60			e. B
<u> </u>			PO'

1 2	14 Feature - Large S	Systems Code File Format	For 3.5.0 Releas	se	00010504	[1
34	SEGMENT DICTIO		00040900			
5			•			
7	SEGMENT NO. OOA				00040993	s
8					00040998	8
9			TRYPOINT		00041001	
i q	7500		PCW		00041003	[1]
3	ZERO	ZERO	TAG 7		00041005 00041010	
				(120	00041010	
4	0000000000000000	0000000 000000000700	000003604003	Stack 20	00041100	14
5	SEGMENT			951=0	00041183	
6	DESCRIPTOR				00041184	1
7	TAG 3		•	\ pw1=36	00041185	ľ
8 9	4	<u> </u>			00041188 00041190	[]
ď	1030000000430 00046	5000700		L= 2	00041190	L.
1	000000000000000000000000000000000000000			50u=12	00041200	
2	READ ONLY			15012	00041381	
3	VALUE ARRA	ΛΥ			00041383	2
1	TAG 5				00041385	
5					00041388	12
7	000003d <u>050</u> 01 08000	008 40007 000000100004	000000E00002		00041390 00041400	É
8	000A03600003 00080	03800003	000000100002		00041400	
9	000400000000000000000000000000000000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	j	alteron	00041600	ā
a	000001900001 00020	03508003 000001200001	000004000003	(all land	00041700	la
1	000001500001 00000	0000009	+	tran	00041800	3
2				tras	00041900	[3
3		2EBO0F50 03AFABB51005 400AABA3	B180875005B9		00042000 00042100	
5	63271086A180 OOAE2	·			00042100	
d	6000AF960DBE 27000	00840001 B20595B4BEFF	270000740002		00042300	Š
7		01E00000			00042400	
8						į.
9			· · · · · · · · · · · · · · · · · · ·			
4						ľ.
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6						ţ
7						į
0 1 2 3 4 5 6 7 8 9						1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
9 .						Į.
q						k

1	15		
2	Feature - Large Systems Code File Format For 3.5.0 Release	00010504	2
4			
			j.
1			6
7			7
9			8
	FILE PARAMETER BLOCKS (FPBS)	00043100	9
(**** ***** ****** *********************		[1
1 2	EDDS are actively as a second transfer of the	00048400	[]
3	FPBS are collections of attributes describing files declared in the user program. The FPB will eventually be converted to a FIB when a	00043400 00043500	
1	file is opened.	00043500	
5	Title 13 Opened.	00043000	ľ
6	FPBS are generated and written to the code file in the following	00043800	1
7	manner:	00043900	1
6 7 8			1
9	WORD O LANGUAGENUMBER (see COMPILERINFO)	00044000	1
9	& FILELEVEL [47:8] (software)	00044100	2
1	WODD A N. TATALAND OF the City in the Court (UDV)	00044200	
4	WORD 1-N INTNAME of the file in the form (HEX): TT O1 O1 LL NN NN OO OO	00044300 00044400	2
۵	II OI OI LE NIN NIN OO OO	00044400	2
9 0 1 2 3 4 5 6 6 7 8 9 9 0 1 1 2 3 4 5 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		00044600	
6	TT = Total length (bytes)	00044700	2 2 2
7	LL = Length of name	00044800	2
8	NN = Name	00044900	2
9	00 = Padded to word boundary	00045000	2 2 3
q		00045100	3
1	WORD N+1 List of attributes in hex form:	00045200	3
2	Numeric/Boolean attributes	00045300	3
الإ	LL AA VV VV	00045400 00045500	
7	LL = Length in bytes	00045500	3 3 3 3
g	AA = Attribute number	00045700	3
 	VV = Attribute value	00045800	3
8		00045900	з
9	String attributes	00046000	3 3 4
q	O2 AA LL VV VV	00046100	H
1	AA = ATTDIRUTE NUMBED	00046200	4
3	AA = ATTRIBUTE NUMBER LL = Length	00046300 00046400	4
3	LL = Length VV = Attribute value	00046400	C
3	VV - ALLI IDULE VAIGE	00046500	G
9	Padding, used to adjust to word boundary	00046525	4 4 4 4
7	for FPB's with variable entries filled	00046530	4
88	in at run time.	00046535	4
1 22 3 4 5 6 7 8 9 0 1 1 2 3 3 4 4 5 6 7 7 8 9 9 0 0	01	00046540	4
q		00046545	១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១១
1	Stopper, the last valid byte in the FPB.	00046550	
4	00	00046555	. [2
4			
}			
a			le le
7			5
8			=======================================
9			ļ.
CI C			Į6

tems Code File Format For 3.5.0 Release	00010504	1 2
		3
		4
		5
		6
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		8
ormat of the FPB descriptor is:	00047800	9
dayad bit	00047000	1
		1
		1
		14
SOLO MAINDEL OF LIE		;
	00048810	l'a
EX would look like the following:	00048800	l,
2. Would look like the lottowing.	000+0000	;
01	00048900	6
	00040300	5
elds are invalid and will cause a hardware	00049200	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		5
		6
μ		Ŀ
		b
		В
		3
		3 3 3 3 3 3
		B
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		<u>-</u>
		5
	he code file is via a special descriptor in the user stack (e.g., at D2 or higher). is allocated at the level of the file tructed within the stack building code. The ually be changed to a descriptor pointing to ormat of the FPB descriptor is:	the code file is via a special descriptor in the user stack (e.g., at D2 or higher). is allocated at the level of the file tructed within the stack building code. The ually be changed to a descriptor pointing to ormat of the FPB descriptor is: dexed bit valid SZF field ngth of FPB (words) P value array bit cord number of FPB EX would look like the following: O0048800 O1 O0048900 elds are invalid and will cause a hardware iptor is accessed. The interrupt will force GETFPB, ATTRIBUTEHANDLER in the MCP), and O0047300 O0047700 O0047500 O0047600 O0047600 O0047800 O0047800 O0047800 O0048900 O0048900 O0048900 O0048900 O0049200 O0049300 O0049400

<u> </u>			
	Footune - Lenge Systems Code File Format For 2 F 0 Deleges	00040504	11
13	Feature - Large Systems Code File Format For 3.5.0 Release	00010504	2
1 4	FPB EXAMPLE	00050000	— 6 ∣
5			5
6			6
7	SEGMENT NO. 002	00050050	7
8		00050055	8
9		00050065	9
10	LANGUAGE	00050070	10
[1 1]	(O=ALGOL)	00050075	11
12	FILELEVEL=1 INTNAME="CODE" INTMODE=EBCDIC	00050080	12
113		00050085	13
114		00050090	14
[]5	01000000000 08010104C3D6 C4C50000000 031D04Q30801	00050100	15
16	TITLE-WEVED #	00050175	16
18	TITLE="HEXER."	00050180	17 18
10		00050185	¦¤
69	030F1E020006	00050190 00050200	19 20 21
51	0007 FE020000	00050200	24
20 21 22 23 24	00000000000 0000000000 00000000000 00000	. 00050400	
23	0000000000 0000000000	00050500	22 23 24 25 26 27 28 30 31 32 34 35 36 37 38 39 41 42
24	999999999999999999999999999999999999999	00050600	24
	, '		25
25 26 27 28 29 30	• •		26
27	COMPILER/INTRINSIC INTERFACE	00052100	27
28			28
29			29
	The compilers interface code files with system intrinsics by	00052400	
31	generating special descriptors (TAG 5) in the segment dictionary for	00052500	31
32	each intrinsic referenced. The descriptor format is:	00052700	32
33			33
34	TAG 5	00052800	34
33	[42:3] Invalid SZF=7 [23:11] Installation number	00053000	35
34 35 36 37	[23:11] Installation number [12:13] Intrinsic number	00053100 00053200	- 30
38	[12.15] THE HAMPE	00033200	20
39	The INTRINSICINFO table (0,17) contains all intrinsic/installation	00053500	39
38 39 40	numbers for the current intrinsic file. The compilers use this table	00053600	40
41	for intrinsic calls. For standard intrinsics (e.g., SIN), the	00053700	41
42	intrinsic numbers are predefined (see SYMBOL/BINDER at 10670000) and	00053800	42
42 43 44 45	the installation number is ZERO. For installation intrinsics, these	00053900	43
44	numbers originate from the BIND cards used to create the intrinsic	00054000	44 45
45	file.	00054100	45
46 47 48			46 47 48
47	Any call on an intrinsic is generated as a normal MKST, NAMC, ENTR	00054300	47
48	sequence, where the NAMC address couple is the D1 location of the	00054400	48
49 50	special TAG 5 descriptor. A special hardware interrupt will occur on	00054500	49
	the first call on the intrinsic, due to the invalid SZF field. The	00054600	þΟ
	descriptor will be overwritten with an SIRW to the intrinsic's PCW in the running intrinsic stack and subsequent calls will function as	00054700 00054800	51 52
52	procedure calls.		P2
54	procedure carra.	00054900	E 4
<u> </u>			
56	·		50
<u>57</u>			57
58			<u>5</u> 8
59			59
51 52 53 54 55 56 57 58 59			53 54 55 56 57 58 59

1 2	18 Feature - Large Systems Code File Format For 3.5.0 Release	00010504
3	The procedure FETCHINTRINSIC at MCP 31500000 handles the special	00055100
5	intrinsic interrupt processing.	00055200
9 <u> </u>	BEFORE FIRST CALL ON INTRINSIC	00057101
8		00057102
9		00057103
0		00057104
1		00057105
2		00057106
3	IRW >	00057107
4		00057108
5 6		00057120
8	RCW	00057140
7		00057160
8		00057180
8 9 11 22 3 4 4 5 6 6 7 7 8 9 9	MSCW	00057180 00057220 00057240 00057280 00057380 00057320 00057340 00057360 00057380 00057400 00057420 00057420 00057480 00057500 00057500 00057500 00057500
9		00057220
1		00057240
4		00057260
3	V	00057280
4	> 5 0700000003D	00057300
2		00057320
2	HEED CTACK	00057340
	USER STACK	00057360
3		00057380
7	i i i	00057400
1		00057420
	CEONENT DIOT	00057440 00057460
2 3 4 5 6	SEGMENT DICT	00057480
3	(USER)	00057480 00057500
<u> </u>		00057520
]		00057520
		00057560
		00037300
 		
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1		
5 5 7 8		
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1			19		!1
2	Feature - 1	arge Systems Code File Form		00010504	2
4	SUBSEQUENT CAL	LS ON INTRINSIC		00060401	ĭ
5	000000000000000000000000000000000000000		!!!	00060402	5
6		•	! !	00060403	6
7		ļ	-> 7 PCW	00060404	7
8	!!!	Å		00060405	8
9	1 1	Ï	· · · · · · · · · · · · · · · · · · ·	00060406	9
10	IRW >		T T T T T T T T T T T T T T T T T T T	00060407	10
1 1		<u>!</u>		00060408	1
12	<u></u>	ļ.		00060410	
13	RCW			00060420	11 11
14	!!!	!		00060430	11.
4 5	·	ļ.	3 SEG DESCRIPTOR	00060440	14
6	MSCW			. 00060450	11
6 7		!		00060460	11
8	· !		!	00060470	112
9				00060480	11 19 20 2
:d	!! v		INTRINSIC	00060490	20
21		·-> 1 SIRW >	STACK	00060500	2
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 38 38 39				00060510	2
23				00060520	2; 2; 2,
24	USER STACK	;		00060530	2 .
25				00060540	2! 20 2
2 6		SEGMENT DICTIONARY		00060550	· 20
27		(USER)		00060560	2
18				00060570	25 29 30
·9				00060580	2 9
ol .				00060590	30
3 1				00060600	3
32				00060610	3: 3: 3: 3: 3: 3: 3: 3: 4:
33				00060620	3:
34				00060630	β,
:5				00060700	B:
6					
37					В.
88					3:
9					
q					14
.1					P.
2					4 4 4 4
3					4
4 5					P.
7					
16 17					14
18					Ľ
9					4! 44 4: 4: 4:
id					50
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3					Ę
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55					
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57					5
8	· · · · · · · · · · · · · · · · · · ·				5
51 52 53 54 55 56 57 58 59					5 5 5 5 5 5 5
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1 2	20 Feature - Large Systems Code File Format For 3.5.0 Release	00010504	1 2
3			3
4			4
5 6	CODE ELLE PINIDED INFORMATION	00060900	p
}	CODE FILE BINDER INFORMATION		· 7
3			8
	Extensive information is maintained in the code file which allows	00061200	9
	binding of program objects.	00061300	10
l			1
	This information is comprised of:	00061500	
	PROGRAM DIRECTORY	00061600	1
	PROCEDURE DIRECTORY	00061700	l'i
	LOCAL DIRECTORIES	00061800	
	REFERENCES	00061900	ļi.
	SEGMENT DICTIONARY	00061940	li li
			1 1 1 1 1 2
	Although a thorough understanding of these structures is not	00062200	þ
	essential for analyzing a Large Systems Code file, the ability to	00062300	2
	identify the above components in the code file necessary.	00062320	þ
	For a description of the information least for the Dinder in the	00000000	12
	For a description of the information kept for the Binder in the segment dictionary, see the section SEGMENT DICTIONARY (D1 STACK).	00062380 00062420	2 2 2 2 2 2 2
	segment dictionary, see the section segment dictionary (DI. STACK).	, , , , , , , , , , , , , , , , , , , ,	5
		,	Ē
	BINDER CONVENTIONS	00062500	
	• •		2 2 3
	To describe the content of the binder information, the following	00062800	3
	conventions will be used. The binder directories/descriptions are	00062900	3
	keyed by special words in the code file in the following form:	00063100	3
			3 3 3 3 3 3 3 3
	UC = [47:8] = Universal class	00063200	ု
	SC = [39:20] = Subclass N = [19:20] = Length	00063300 00063400	
	N - [19:20] - Length	00063400	[2
	Example:	00063700	6
	Examp. C.		4
	02 0000 0004	00063900	4
	Universal class = 2 = Single precision operand	00064000	4
	Sub class = 0 = Integer type	00064100	¥
	Length = 4 Words	00064200	
	Managed and the developing (10, 00, 11, PMTRV)	00004500	
	Keywords may be denoted as (UC, SC, N, ENTRY). Appendix A contains a	00064500	4
	complete list of universal/sub classes.	00064600	- [
	Identifiers are constructed as:	00064800	
	rachen for a alle collect de teu as.	0004800	5
	4" TT O1 O1 CC "8" NN N"	00064900	
		00065000	
	TT = Total length in bytes of this construct	00065100	
	CC = Number of characters in idetifier	00065200	ļe.
			ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ
			15
			[5
			6

[1]	0.4		
2 3	Feature - Large Systems Code File Format For 3.5.0 Release	00010504	2 3
4 5	NN = The identifier	00065300	4
6	Individual stack items are described by ITEM DESCRIPTIONS. These	00065600	6
7	descriptions usually include an identifier entry (0,1,N) (IDENTIFIER)	00065700	7
8	and an address couple entry (0,2,N) (ADDRESS COUPLE).	00065800	8 9
10	PROGRAM DESCRIPTION	00065900	1C
12			12
13			13
14	The program description (PD) is located by the code file segment	00066100	114
15	number at segment ZERO [16].[19:20]. It describes the outer	00066200	15
16 17 18	procedure (if this is a procedure program), global items (GLOBALS),	00066300	16
17	points at the procedure/block directory (called the PROCEDURE	00066450	17 18
	DIRECTORY) and supplies miscellaneous code information (code address	00066500	18
19	of stack building code, etc.). The PD is also used for run-time	00066600	19 20 21
29	parameter checking of procedure programs (e.g., SYSTEM/DUMPALL). See	00066800	20
19 20 21 22 23 24 25 26 27 28 29	EXTERNALREFERENCE of DOCTOR for this usage.	00066900	21
22	December descriptions are already and different to describe the second to the second t	00007400	22
23	Program descriptions are structured differently depending on whether	00067100	23
K#	the program is a HOST/BLOCK program or a separate procedure program.	00067190	24
20	PROCEDURE PROGRAM BLOCK PROGRAM	00067300	25
2	PROCEDURE PROGRAM BLUCK PROGRAM	00067400	20
5.		00067400	
20	SEGO[16] SEGO[16]	00067600	b c
80	3Eq0[10]	00067620	80
B4		00067625	
23	Item description of<-	00067625	20
23	outer procedure	00067700	22
	including parameters	00067800	
25	The futuring parameters	00068000	95
6	Procedure directory Procedure directory<-	00068100	20
31 32 33 34 35 36 37	pointer pointer	00068200	B
20	pointer	00068300	20
38 39	External directory External directory	00068400	20
40	External directory	00068500	a
41	MISCELLANEOUS MISCELLANEOUS	00068600	[4]
42			42
43	The procedure directory is a list of blocks/procedures in the program	00069200	43
44	and resides apart from the PD. The procedure directory pointer in	00069300	44
43 44 45	the PD is HEX encoded (0,22,L). The next word contains the disk	00069400	45
46 47	segment number of the procedure directory [19:20] and length [39:20].	00070000	46
47			47
48	Note: In the following discussion and examples, all program	00070015	48
49	description subclasses are in base 16.	00070020	22 23 24 25 26 27 28 30 31 32 33 34 35 40 41 42 43 44 45
50			
51	After finding the PD from SEGO[16], a quick scan through the PD for	00070200	51 52 53 54 55 56 57 58
52	an entry like the following example will lead to the procedure	00070300	52
5 3	directory.	00070400	53
54			5
p ₂	000002200005 000000500009	00070500	5
p6		00070600	56
P/			
51 52 53 54 55 56 57 58 59			ρį
23			E)
pU			ю(

00010504	
00070700	
00070800	
00071200	
00071200	
00071300	······································
00071500	
	•
00072000	
00072100	
00072603	
00072605	
	
00072900	
	· · .
	÷
	00070700 00070800 00071200 00071300 00071400 00071500 00071600 00071700 00071800 00071900 00072000 00072100 00072200 00072300 00072400 00072500 00072500

	Feature - Large Systems Code File Format For 3.5.0 Release	00010504
	PROGRAM DESCRIPTION EXAMPLE	00073100
	PROGRAM DESCRIPTION EXAMPLE	
SEC	GMENT NO. 009	00073300
		00073400
	EXTERNAL	00073475
	PROCEDURE DIRECTORY DIRECTORY	00073477
	POINTER (0,22,L) (0,4,L) INTRINSIC	00073479
	DIRECTORY AT RECORD #8 6 WORDS (24,2,L)	00073481
	5 WORDS	00073482
	- 10.00	00073483
Ţ		00073485
000	0002200003 000000300008 000000400006 240000200005	00073500
	0000100002 07010103F0F6	00073600
		00073700
	LT48 POINTERS	00073780
	(O,E,L)	00073782
	2 WORDS	00073784
		00073785
	T	00073790
F 13	35402EB60F 000000200001 000000100004 000000E00002	00073800
		00073885
		00073890
000	000803800008 000803800008	00073900
		00073920
	DCKEXIT POINTER END OF D2 STACK	00073940
(0	, 19,L) (0,12,L)	00073960
		00074000
1		00074050
000	0001900001 000203508003 000001200001 000004000003	00074100
		00074110
	STACK SIZE	00074120
(0	,15,L)	00074130
т		00074140
<u>i</u>		00074150
000	0001500001 00000000009	00074200
		00074300
	30ABB7A060 32402EB6CF50 03AFABB51005 B180875005B9	00074400
. вз	27108BA180	00074500
60/	OOAF960DBE 270000840001 B20595B4BEEF 270000740002	00074600
	DOAF960DBE 270000840001 B20595B4BEEF 270000740002 D595B4B0BE 000001E00000	00074700 00074800
D2(00074800
	PROCEDURE DIRECTORY	00075000
The pi	rocedure directory contains information about all of the blocks	00075200
and pi	rocedures in the program.	00075400
, ,		
		•

24				-
Feature	e - Large Sys	stems Code File Format For 3.5.0 Release	00010504	
The procedure	e directory	is located from the entry in the program	00075600	
		(0,22,L1) (L2,ADDRESS). L1 is the length of	00075600	
the entire p	rocedure dire	00075705	······································	
		ire procedure directory is in disk segment	00075715	
ADDRESS, beg	inning in wor	rd 1. Word 0 of that segment is zero.	00075720	
If L1 > L2.	then the prod	cedure directory is in several pieces. The	00075730	
		1 L2 and begins in word 1 of the disk segment	00075735	
specified by	ADDRESS. V	Word O of that segment is of the form	00075740	
(L3,ADDRESS)	and gives	the length and disk segments number of the	00075740	
		directory. This chain of disk segments	00075745	
		gment is reached that contains a zero in word	00075750	
0; this disk	segment co	ontains the last piece of the procedure	00075755	
directory.	In each d	isk segment in the chain, the procedure	00075760	
directory in	formation beg	gins in word 1.	00075800	
The format o	f the procedu	ure directory is as follows:	00076000	
LIOPO '			00070000	
WORD 1			00076300	
47:1	BIT47	1 if procedure is external.	00076600	
46:1	BIT46	1 if local directory of procedure	00076700	
40.1	B1140	contains owns or segment dictionary	00076800	
		items.	00076900	
75 15	STOUGESE		20077250	
45:18	DISKSEGF	disk segment number of local directory	00077050	
		for this procedure or block.	00077100	
27:1	NEWPROCF	1 if this is a new procedure added to the	00077200	
		host because of an unresolved call on it	00077300	
		by a procedure bound in.	00077400	······································
26:1	VALARYBIT	1 if this is not a procedure but a D1	00077500	
		value array.	00077700	
25:5	LDWORDF	Local directory of this procedure may not	00077850	
23.3	LUMUKUI	start on segment boundary, but may start	00077830	
		at this word (0-29) of segment indicated	00078000	
		by DISKSEGF.	00078100	
20:5	NESTLVLF	Lexical level of this procedure.	00078400	
20.3	MESIEVE	Lexical rever of tills procedure.	00078400	
15:3			00078600	
12:13 SEG	DIF	Code O segment (see SEGSBIT) number which	00078750	
		is stack building code for this	00078800	
		procedure. All non-own and non-segment	00078850	
		directory items in the local directory	00078900	
		are built in this segment (code also	00078900 00079050	
		exists there).	00079050	
		·		

4		
1 2 Feature - Large Systems Code File Format For 3.5.0 Release	00010504	
WORD 2	00079200	
7 47:8 Number of characters in identifier.	00079450	
blocks; e.g. BLOCK#6.	00079500	
XXXXXXX identifier (in EBCDIC). Compilers assign	00079600	
names to blocks; e.g. BLOCK#6. As many	00079700	
words as necessary.	00079800	
WORDS N-M	00079900	
15:1 SEGSBIT Implies that this word contains the number of all the code segments that are unique to this procedure.	00080100	
number of all the code segments that are	00080200	
unique to this procedure.	00080300	•
12:13, 28:13, 44:13 Up to 3 code segment numbers per word are	00080450	
placed in these fields in the order list	00080500	
at only if SEGSBIT is on.	00080600	
ac only it season to on.	0000000	
12:13, 28:13, 44:13	00080700	
TIFICAL CHIRT		
	•	
SEGSBIT	00080900	
ON	00081000	
	00081100	
ID,	00081190	
LENGTH	00081193	
	00081200	
WORD 1 4 PROC 1 1 WORD 1 of next entry	00081300	
	00081400	
EXTRA SEGMENTS	00081500	
other than stack building segment	00081600	
indicated in WORD 1	00081650	
Note: If no extra segments are contained in a procedure, the word	00081900	
following the IDENTIFIER will have 15:1 = 0 since it will be	00081900	
WORD 1 of the next entry.	00082100	
		

PROCEDURE DIRECTORY EXAMPLE	1 26		14
LENGTH OF DIRECTORY = 3		00010504	2
LENGTH OF DIRECTORY = 3	4 PROCEDURE DIRECTORY EXAMPLE	00082110	
LENGTH OF DIRECTORY 3	5		5
LOCAL DIRECTORY	6 <u> </u>		6
LOCAL DIRECTORY	LENGTH OF DIRECTORY = 3	00082300	8
LOCAL DIRECTORY	9		9
000000000000 40003002003 7C2D3BGC3D2 7BF60000000 000025500 10 10 10 10 10 10 10	Q LOCAL DIRECTORY		10
00000000000			11
000000000000	2		
000000000000	3 78560000000		
000000000000	4 00000000000 400030020003 07C2D3D6C3D2 7BF600000000 5		4.1
O0000000000	0000000000 00000000000 000000000000		
O00000000000	7 0000000000 0000000000 0000000000 000000		1.
40 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	8 00000000000 0000000000 0000000000 00000		
40 42 42 43 44 44 44 44 44 44 44	9 0000000000 0000000000 0000000000 000000		
40 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	g 0000000000 0000000000 0000000000 000000		Ę
40 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	21 0000000000 000000000 000000000000000		
40 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	2 0000000000 00000000000000000000000000		2
40 41 42 43 44 44 45 47 48 48	4	0000000	2
40 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	.6		. 2!
40 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	.6 LOCAL DIRECTORY		20
40 41 42 43 44 44 45 47 48 48	7		2
40 42 42 43 44 44 44 44 44 44 44	8	00094350	2
40 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	g the local directory of procedure or block describes all locals Of declared in the procedure or block. This includes procedure		
40 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	parameters, procedures declared internally, procedure values for		3
40 42 42 43 44 44 44 44 44 44 44	typed procedures, and local variables. Local directories generally		3:
40 42 42 43 44 44 44 44 44 44 44 44 44 44 44 44	start on a segment boundary and can be identified by (0,21,L) in word		s:
40 42 42 43 44 44 44 44 44 44 44	0. This word is followed by items descriptions for the locals.	00085100	3.
40 42 42 43 44 44 44 44 44 44 44	5) SG The local directory of a procedure of block is pointed to by the	00085250	31
40 42 42 43 44 44 44 44 44 44 44	DISKSEGF field of the procedure directory entry for that procedure or		3.
40 42 41 42 43 44 44 44 44 44 44	8 block.		3:
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			3:
4 4 4 5 4 7 4 8	lo		
4: 4. 4. 5. 4. 7. 4. 8. 4.			
4 5 7 7 8 9	13		
4 4 4 4			[4]
44 44 44			4!
44 45	16 .		4
49			14.
1 i_	18		
. 5 5 5 5 6 7 5	19 50		
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			. 5
55 4 54 5 55 6 57 7 57	;2		5:
54 55 56 7 7 57 57	;3 <mark> </mark>		5 :
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	14		5
5 7 5 3			5
5	¹ 04 इ.7		<u> </u>
\mathfrak{I}	7 /L 58		
	59 		5
	'd		6

1	27	
2	Feature - Large Systems Code File Format For 3.5.0 Release	00010504 2
4	LOCAL DIRECTORY EXAMPLE	00085500 4
5	***** *********************************	 5
[g		00005000
8	LOCAL DIRECTORY FILE IDENTIFIER	00085800 7 00085875 8
9	(0,21,18) (16,1,5) (0,1,L)	00085880
10	(0,1,1)	00085885
11		
12	000002100018 160000100005 000000100002	00085900 12
13	ADDRESS COUPLE	00085975
14 15	"LINE" (0,2,L)	00085980 14 00085985 15
16	The state of the s	00085990 16
16 17	08010104D3C9 D5C500000000 000000200001	00086000
18		00086100 18
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	(2,3)	00086120
20	TT	00086140
52	00000200003 160000100005 000000100002	OOO85900 1 OOO85975 15 OOO85980 14 OOO85985 15 OOO85990 16 OOO86100 15 OOO86100 15 OOO86120 15 OOO86120 15 OOO86160 2 OOO86300 25 OOO86300 25 OOO86500 25 OOO86600 26 OOO86700 25 OOO86900 25 OOO87000 30 OOO87000 30 OOO87200 33 33 33 34 34 OOO87900 44 OOO87900 45 OOO88100 45 OOO88200 45 OOO88400 45
23	08010104C3D6 C4C500000000 00000200001	00086300
24		0008640024
25	00000200004 020000000004 000000100001	00086500 25
26	050101010900 000000200001 000000200005	00086600 26
	060000100006 000000100001 05010101C100	00086700 25 00086800 28
29 29	000000100006 0000001 000101010101010 000000200001 000000200006 000000F00001	00086900 29
30	00000200001	00087000
31	00000000001 00000000000 00000000000	00087100 3
32	0000000000 00000000000 00000000000	00087200
33		00087300 33
24 25		ენ ე
36		36
37		3.
38		38
39	REFERENCES	00087500 3
40 41		H
42	References are pointers into the code file that mark code to be fixed	00087800
42 43	up should binding occur.	00087900 4
44		μ.
45	In the segment dictionary, if the TAG field of a segment descriptor	00088100 4
44 45 46 47	is 4"8300", there are references to code in that segment. The word immediately following the object code in the disk segment (the length	· 00088200 40 00088300 4
48	of the code is given in the segment discriptor) has the following	00088400
49	format:	00088500 49
50		Į -
51	[47:12] REFNUMF Number of references following this word (the	00088600 5
52	references may cross the segment boundary	00088620 5
53 54	into the following disk segment).	00088650 5
55	[35:20] REFDISKADF If zero, all of the references follow	00088700 5
56	this word. If nonzero, it is the disk	00088720
57		5
48 49 50 51 52 53 55 55 55 55 55 55 55 55 55		00088600 5 00088620 5 00088650 5 00088700 5 00088720 5 5 6
59 60		ත් ප්
p U		o

1 2	28 Feature - Large Systems Code File Format For 3.5.0 Release	00010504	1 2
3			3
4	segment number of the next groyp	00088740	4
5	of references.	00088760	5
6			6
7	If REFDISKADF is nonzero, then the references appear in more than	00088900	7
8	group, and the next group is in the disk segment addressed by	00089000	8
9	REFDISKADF. In that segment, word 0 has the following format:	00089020	9
10			10
1	[47:12] REFNUMF The number of references following this word.	00089030	1:
12			1:
13	[35:20] REFDISKADF If zero, this is the last group of	00089050	1:
14 15	references. If nonzero, it is the disk	00089055	11:
<u> </u>	segment number of the next group of	00089060	
16 17	references.	00089065	119
1./		00089080	12.
18	The reference following this word are in the form of a DCM with CDT	0000000	
19 20 21 21 22 22 22 24 25 26 27 28 29 33 34 33 34 33 34 33 34 37 38 39	The references following this word are in the form of a PCW with SDI, word index, and syllable index fields.	00089300 00089400	13
2 1	word meek, and syriable muck fields.	00089400	P.
5,	References refer to operators that contain address couples, such as	00089520	14 15 16 17 18 19 20 22 22 22 22 23 25 25 33 33 33 34 44 44 44 44 44 45 50 55 55 56 56 56
3	NAMC and VALC, where the address couple addresses D1 or D2 stack	00089540	6
24	locations (since these addresses may change upon binding), or to	00089560	5
55	LT48/MPCW operators in D2 stack building code (the literal or the PCW	00089580	
6	may require modification upon binding).	00089600	5
7	may require mean reaction appears and manager	0000000	5
8			
9			29
d		•	30
1			3
2	FPB/PPB RUN-TIME INFORMATION	00089700	3:
3			la:
4			34
5	SHEET[0] indicates to the compiler whether run-time file-equation	00090000	þ:
6	information (FPB) or program parameter information (PPB) is to be	00090100	
7	written to the code file.	00090300	3.
8			B
9	This information is usually the last segment of the code file. The	00090500	39
વ	format of the FPB was discussed in thw FPB section. The PPB is a	00090600	4 (
1	list of task attributes to be applied at task initiation.	00090800	14
2 3 4 5 6 7		00001500	
3	The PPB (program parameter block) is formatted as follows:	00091000	143
4	and tool.	00001100	1
2	each task	00091100	
7	PTASKLINKF = [47:28]	00091200	141
4	PATLINKF = [19:20]	00091300	<u> </u>
3	for each attribute	00091400 00091500	
9	for each attribute PATNOF = [47:08] attribute number		(4)
M	PATNOF = [47:08] attribute number PATTYPEF = [39:08] attribute type (i.e., STRING)	00091600 00091700	5,
; <u>'</u>	PATITYPEF = [39:08] attribute type (1.e., STRING) PATMISCF = [31:08]	00091700	
3	PATHISOF - [31:08] PATLENF = [23:24] length of entry	00091800	E.
<u>a</u>	TATELLY - [20.27] Tength of entry	00031300	E.
5			
á			5
7			Ę
<u>.</u>			
9			· 5
50 51 52 53 54 55 56 57 58 59			6
· • •			~

1	29	Ţi
2	Feature - Large Systems Code File Format For 3.5.0 Release	00010504 2
4 5	Word 0 of the segment for an FPB or PPB contains the following:	00092400 4 5
l 6	[47:1] = 1 for a PPB, O for an FPB	00092500
7	[19:20] = length of PPB/FPB	00092600 7
8		8
9		9
10	PPB EXAMPLE	00092800
11		· 12
13		00093100
14 15	ATTRIBUTE NUMBER=O	00093100 14 00093175 15
	[47:1]=1 = NYNAME	00093173
16 17 18	[47.1]=1	00093184
18	ŢŢ	00093190
19	80000000006 000000400000 000200000003	00093200
	COMPILED PROGRAM NAME	00093280
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37		00093200 19 00093280 20 00093285 21 00093290 22 00093400 24 00093500 26 00093700 27 00093800 28 00093900 29 00094100 30 0009400 30 00094200 32 00094300 33 00094400 32 00094500 36
22		00093290 22
23	09010105C8C5 E7C5D9000000 00000000000	00093300 23
24		00093400 24
25	0000003D0500 080000840007 000000100004	00093500
26	000000E00002 000A03600003 000803800003	00093600
27		00093700 27
28	000001900001 000203508003 000001200001	00093800 28 00093900 29
29	000004000003 000001500001 0000000000009	00093900 25
<u> </u>	B280ABB7A060 32402EB60F50 03AFABB51005	00094000 31
32	B18087500589 B327108BA180 OOAE400AABA3	00094200
33		00094300
34	6000AF960DBE 270000840001 B20595B4BEFF .	00094400 34
35	270000740002 B20595B4B0BE 000001E00000	00094500
36		36
37		37
38		38
39		39
40		4.
4 1 42		442
42		42
4.3		
43 44 45		4.5
46		46
46 47		47
48		43 44 45 46 47 48
48 49 50		49
50		la company and the company and
51		5·
52		52
53		5
54		5-
52		
P 0		E-
E./		5
50 51 52 53 54 55 56 57 58 59		5 52 53 54 55 55 55 56
60		60
1 I		

	2 13
	4 5 6
00094900	7 8 9
	1
00095100	1
00095400 00095500	111111111111111111111111111111111111111
	2
00095600	2
00096696	2
00096701 00096702 00096703	2 2
00096704 00096705 00096706	3
00096707 00096708	3
00096710 00096711 00097000	3
00097200 00097400	4
00097500	4
00097800	
· · · · · · · · · · · · · · · · · · ·	5
	5
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	00095100

1	31	
2	Feature - Large Systems Code File Format For 3.5.0 Release	00010504
4	UNIVERSAL CLASSES	00097900
9		
7	UC DESCRIPTION	00098100
8		00098200
9		***************************************
ıd	O INFORMATION KEYWORD	00098400
1	2 48-BIT OPERAND (ANY TAG O)	00098500
2	4 96-BIT OPERAND (ANY TAG 2)	00098600
13	6 DATA DESCRIPTOR (D=0,I=0)	00098700 00098800 00099000
14	8 DATA DESCRIPTOR (D=O,I=1)	00098800
15	10 DATA DESCRIPTOR (D=1,I=0)	00099000
। ବ	12 DATA DESCRIPTOR (D=1,I=1)	00099100
17	14 STRING DESCRIPTOR (I=O)	00099200
18	16 STRING DESCRIPTOR (I=1)	00099300
9	18 PCW (UNTYPED PROCEDURE OR SUBROUTINE)	00099400 00099500 00099700 00099800 00099900 0010000 00100100 00100200 00100300 00100400 00100500 00100600 00100600 00100805 00100815 00100825 00100835
29	20 PCW (TYPED PROCEDURE OR FUNCTION)	00099500
(1)	22 FILE	00099600
4	24 TASK	00099700
19 20 21 22 23 24 25 26 27 28 29	26 PAIR OF DATA DESCRIPTORS TO ONE ARRAY	00099800
34	FIRST IS SP, SECOND IS DP	. 00099900
20	(This is primarily for EODTDAN common blocks	00100000
20	(This is primarily for FORTRAN common blocks . and equivalence groups)	00100100
	. and equivarence groups)	00100200 00100300
20	28 INTERRUPT	00100300
20	30 MESSAGE OR MESSAGE ARRAY	00100500
31	32 QUEUE OR QUEUE ARRAY	00100600
32	34 INTRINSIC (SUBROUTINE)	00100700
33	36 INTRINSIC (FUNCTION)	00100800
34	38 PL/I VARIABLES	00100805
35	4O DATA BASE	00100815
36	42 STRING VARIABLE	00100820
37	44 STRING ARRAY	00100825
34 35 36 37 38 39	46 STRING PROCEDURE	00100830
39	48 ALTERNATIVE ITEM GROUP	00100835
ło	50 DATA DICTIONARY DESCRIPTIONS	00100840
l 1	52 TRANSACTION BASE	00100845
12 13 14 15	54 LIBRARY	00100840 00100845 00100850 00100855
13	56 LIBBRARY ENTRY POINT	00100855
4	58 EXPORTED SUBROUTINE OR FUNCTION	00100860
5	60 BY-CALLING SUBROUTINE OR FUNCTION	00100865
16 17		00100900
1 7]	NOTES:	00101000
18	(4) 11 000 110 MEING THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT TO SELECT THE TENT	00/01000
19 50	(1) AN ODD UC MEANS THE ITEM IS A CALL-BY-NAME OR	00101200
	CALL-BY-REFERENCE PARAMETER.	00101240
: }	(2) SUBROUTINE = UNTYPED PROCEDURE. FUNCTION = TYPED	00101260 00101280
24	, ,	00101260
3	PROCEDURE	00101280
(3)		
á		
, 7		
.sl		
51 52 53 54 55 56 57 58 59		
5 0		
- 1		

32	Featur	re - Large Systems Code File Format For 3.5.0 Release	00010504	
·	_	SUBCLASSES	00101400	
UC	sc	DESCRIPTION	00101900	
			00102000	
0	1	IDENTIFIER	00102200	***************************************
	2	ADDRESS COUPLE	00102300	
	3	PARAMETERS	00102400	
	4	GLOBAL DIRECTORY	00102500	
	5.	D1 REFERENCES	00102600	
	6	GLOBAL REFERENCES	00102700	
	7	LT48 POINTER FOR MAKING PCW	00102800	
	8	SEGMENTS	00102900	
	9	NUMBER OF PARAMETERS	00103000	
	10	EXTERNAL IDENTIFIER	00103200	
	11	OWN DIRECTORY	00103300	
	12	OWN REFERENCES	00103400	
	13	D2 STACK BUILING CODE ARRAY	00103500	
	14	LT48 POINTERS FOR MAKING VALUE ARRAY DESCRIPTORS	00103600	
	15	NUMUMBER OF DIMENSIONS (PARAM, ARRAY WITH LOWER BOUNDS	00103700	
		OR GLOBAL ARRAY)	00103750	
	16	ARRAY LENGTH (SEGMENTATION ALLOWED)	00103800	
	17	SEGMENT DICTIONARY INDEX	00103900	
	18	END OF D2 STACK POINTER	00104000	
	19	FIRST EXECUTABLE CODE SYLLABLE	00104100	
	20	SUBSCRIPTED VARIABLE POINTER (FORTRAN)	00104200	
	21	GLOBAL STACK SIZE	00104300	
	22 23	ARRAY LENGTH (SEGMENTATION NOT ALLOWED) LT16 POINTER FOR COMMON BLOCK LENGTH	00104400 00104500	
	23	REFERENCES TO DOUBLE AND COMPLEX ITEMS IN COMMON	00104500	
	24 25	BLOCK EXIT POINTER FOR FORTRAN STOP IN SUBPROGRAM	00104700	
	26	INTRINSIC SPECIAL INFORMATION	00104800	
	27	NUMBER OF DIMENSIONS (PARAMETER ARRAY WITHOUT LOWER BOUNDS	00104800	
	28	INITIAL VALUE OF A VARIABLE OR ARRAY	00105000	
	29	CODE COPYING STARTING AND ENDING LOCATIONS	00105100	
	30	HEX REFERENCES TO OWNS	00105200	
	31	BCL REFERENCES TO OWNS	00105300	
	32	EBCDIC REFERENCES TO OWNS	00105400	
	33	LOCAL DIRECTORY	00105500	
	34	PROCEDURE DIRECTORY	00105600	
	35	NUMBER OF ADDRESS COUPLES (PARAMETERS)	00105700	
	36	CHECKING CODE FOR FORMAL PROCEDURE	00105800	
	37	EXTRA SEGS FOR PL/I CONTROLLED VARIABLES	00106000	
	38	INITIAL CODE SCW AND # OF STACK CELLS (PL/I)	00106100	
	39	TIMESTAMP FOR DATA BASE	00106115	
	40	FIRST ADDRESS/COUPLE OF SIB FOR DATA BASE	00106120	
	41	LIST OF (STRNAME,STR#,ADRCPL) GROUPS FOR DATA BASE	00106125	
	42	LEVEL 2 SOFTWARE CONTROL WORD IMAGE	00106130	
	43	LEVEL 2 EPILOG OR STATISTICS PCW IMAGE (DCALGOL)	00106135	
	44	LT48 POINTER FOR MAKING EPILOG PCW BELOW SCW	00106140	
	45	TRANSACTION BASE CREATION TIMESTAMP AND UPDATE TIMESTAMP	00106150	

Feature - Large Systems Code File Format For 3.5.0 Release			00010504	
UC	66	DECONTACTOR	00404600	
	SC	DESCRIPTION ,	00101600 00101700	
			00101700	
	46	LIST OF FORMATS AND SUBFORMATS INVOKED FOR TRANSACTION	00106160	
	40	BASE	00106165	
	47	TRANSACTION BASE FORMAT	00106170	
		TRANSACTION BASE SUBFORMATILOG PCW BELOW SCW	00106170	
		TRANSACTION BASE ASSOCIATED WITH TR RECORD OR RECORD ARRAY	00106190	
	50	PROCEDURE/SUBROUTINE COMPILERINFO WORD	00106200	
	51	LIBRARY TEMPLATE ATTRIBUTES	00106210	
	52	DATA DICTIONARY INVOCATION DIRECTORY	00106220	
	53	DATA DICTIONARY USAGE DIRECTORY	00106230	
	54	ENTRY POINT DESCRIPTION OF A LIBRARY ENTRY POINT	00106240	
	52	LIBRARY TO WHICH AN ENTRY POINT BELONGS	00106250	
2	0	SP OPERAND (INTEGER)	00106400	
_	1	SP OPERAND (REAL)	00106500	
	2	SP OPERAND (BOOLEAN)	00106600	
	3	WORD VARIABLE	00106700	
	4	REFERENCE VARIABLE	00106800	
4	1	EVENT	00106900	
	3	DOUBLE PRECISION OPERAND	00107000	
	4	COMPLEX OPERAND	00107100	
6	0	SP_ARRAY (INTEGER)	00107200	
	1	SP ARRAY (REAL)	00107300	
	2	SP ARRAY (BOOLEAN)	00107400	
	3	WORD ARRAY	00107500	
	4	REFERENCE ARRAY	00107600	
	5	DIRECT INTEGER ARRAY	00107700	
	6	DIRECT REAL ARRAY	00107800	
	7	DIRECT BOOLEAN ARRAY	00107900	
	8	COBOL SEGMENTED ARRAY	00108000	
	9	FORTRAN VARFILE ARRAY	00108100	
	10	NEW FORMAT ARRAY	00108300	
	11	TRANSACTION RECORD OR RECORD ARRAY	00108350	
8	0	SP SUBSCRIPTED VARIABLE (INTEGER)	00108500	
	1	SP SUBSCRIPTED VARIABLE (REAL)	00108600	
	2	SP_SUBSCRIPTED_VARIABLE (BOOLEAN)	00108700	
	3	FORMAT (ALGOL)	00108800	
	4	PICTURE (ALGOL)	00108900	
10	2	EVENT ARRAY	00109100	
	3	DOUBLE PRECISION ARRAY	00109200	
	4	COMPLEX ARRAY	00109300	
	5	DIRECT DOUBLE ARRAY	00109400	
12	3	DOUBLE PRECISION SUBSCRIPTED VARIABLE	00109500	
	4	COMPLEX SUBSCRIPTED VARIABLE	00109600	
14	1	CHARACTER ARRAY:CHARACTER SIZE=4	00109700	
	2	CHARACTER ARRAY: CHARACTER SIZE=6	00109800	
	3	CHARACTER ARRAY: CHARACTER SIZE=8	00109900	
	4	NON REENTRANT FORMAT ARRAY (FORTRAN)	00110000	
	5	DIRECT CHARACTER ARRAY: CHARACTER SIZE=4	00110100	
	6	DIRECT CHARACTER ARRAY: CHARACTER SIZE=6	00110200	
	7	DIRECT CHARACTER ARRAY: CHARACTER SIZE=8	00110300	

	Feat	ure - Large Systems Code File Format For 3.5.0 Release	00010504	
ī	JC SC	DESCRIPTION	00101600	
			00101700	
			33.07.33	
	6	POINTER	00110400	
1	18 () SUBROUTINE	00110500	
		INITIALIZATION SUBROUTINE (FORTRAN)	00110600	
			. 00110700	
	3		00110800	
	- 4		00110900	
	ţ		00111000	
	6		00111100	
··			00111200	
	8		00111300	
	9		00111400	
	10		00111600	
,	1.	· · · · · · · · · · · · · · · · · · ·	00111615	
2	20 (00111800 00111900	
		PUNCTION (REAL)	00112000	
		B FUNCTION (DOUBLE PRECISION)	00112000	
	2		00112100	
			00112200	
	•	OR (NOTHING UNKNOWN)	00112400	
	•		00112500	
			00112600	
	8		00112700	
	9		00112800	
•	10		00113000	
2	22	FILE .	00113200	
	:	DIRECT FILE	00113300	
	;	COBOL FILE	00113400	
	4	DM RESTART FILE (COBOL)	00113500	
		I TASK	00113600	
	:	2 TASK ARRAY	00113700	
2		FORTRAN COMMON BLOCK	00113800	
		FORTRAN EQUIVALENCE ARRAY	00113900	
		INTERRUPT	00114000	
(MESSAGE	00114100	
		MESSAGE ARRAY	00114200	
;		QUEUE APPAY	00114300	
		QUEUE ARRAY	00114400	
		O INTRINSIC (SUBROUTINE)	00114500	
;	36 (00114600 00114700	
		I INTRINSIC (REAL) 2 INTRINSIC (BOOLEAN)		
		NTRINSIC (BOOLEAN) INTRINSIC (DOUBLE PRECISION)	00114800 00114900	
		· · · · · · · · · · · · · · · · · · ·	00114900	
	38	INTRINSIC (COMPLEX) PL/I VARIABLES	00115000	
		DATA BASE	00115100	
		DEBCDIC STRING VARIABLE (ALGOL)	00115113	
•	+2 '		00115125	
		2 HEX STRING VARIABLE (ALGOL)	00115130	
		D EBCDIC STRING ARRAY (ALGOL)	00115135	
		/	00110100	

·	35		
Fea	ature - Large Systems Code File Format For 3.5.0 Release	00010504	
 UC S	SC DESCRIPTION	00101600	
		00101700	
 	1 ASCII STRING ARRAY (ALGOL)	00115140	
	2 HEX STRING ARRAY (ALGOL)	00115145	
46	O EBCDIC STRING PROCEDURE (ALGOL)	00115150	
	1 ASCII STRING PROCEDURE (ALGOL)	00115155	
	2 HEX STRING PROCEDURE (ALGOL)	00115160	
48	O ALTERNATIVE ITEM GROUP (NEWP)	00115165	
50	1 DATA DICTIONARY DESCRIPTION OF DATABASE	00115170	
	2 DATA DICTIONARY DESCRIPTION OF TRANSACTION BASE	00115175	
	3 DATA DICTIONARY DESCRIPTION OF DATA SET	00115180	
	4 DATA DICTIONARY DESCRIPTION OF TRANSACTION FORMAT	00115185	
	5 DATA DICTIONARY DESCRIPTION OF EXPLICITLY-INVOKED DISJOINT	00115190	
 	SET	00115192	
	6 DATA DICTIONARY DESCRIPTION OF GLOBAL DATA SET	00115195	
	O TRANSACTION BASE	00115200	
	O LIBRARY	00115205	
	O LIBRARY ENTRY POINT	00115210	
58	O EXPORTED SUBROUTINE	00115215	
 	1 EXPORTED INTEGER FUNCTION	00115220	
	2 EXPORTED REAL FUNCTION	00115225	
	3 EXPORTED BOOLEAN FUNCTION	00115230	
 	4 EXPORTED DOUBLE FUNCTION	00115235	
	5 EXPORTED COMPLEX FUNCTION	00115240	
	6 EXPORTED EBCDIC STRING PROCEDURE 7 EXPORTED ASCII STRING PROCEDURE	00115245	
 	8 EXPORTED HEX STRING PROCEDURE	00115250	
	O BY-CALLING SUBROUTINE OF FUNCTION	00115255 00115260	
90	O BY-CALLING SUBROUTINE OF FUNCTION	00115270	
 	NOTES:	00115270	
 	(1) AN ODD UC MEANS THE ITEM IS A CALL-BY-NAME OR	00115340	
	CALL-BY-REFERENCE	00115360	
	PARAMETER.	00115400	
 	(2) SUBROUTINE=UNTYPED PROCEDURE.	00115600	
	FUNCTION=TYPED PROCEDURE	00115990	

1 36 2 F 3	eature - Large Systems Code File Format For 3.5.0 Release	00010504	
5			
7 3 3	KEYWORD DESCRIPTIONS	00116100	
O 1			
2 (0,1,N,	IDENTIFIER)	00116300	
3	NTIFIER has the form:	00116500	
3	4"TTO101CC"8"XXX"	00116700	
71 3 whe	re:	00116900	
9	CC is the number of characters in the IDENTIFIER string	00117100	
1	TT=CC+4 (total number of bytes in string)	00117100	
2	N=(TT+5) DIV 6	00117300	
The fill (0,2,1,8) ADD (1) The second of the	string is left justified and the last word contains undefined	00117600	
fill		00117700	
(0,2,1,	ADDRESSCOUPLE)	00117800	
ADD	RESSCOUPLE has the form:	00118000	
1	:///: LEVEL : DISP :	00118200	
2			
whe	re:	00118400	
	LEVEL=[39:20]	00118600	
	DISP =[19:20]	00118700	
(O,3,N,	PARAMETERS)	00118900	
PAR	AMETERS has the form:	00119100	
	(0,9,1,P) :	00119300	
2	:	00119400	
1	(UC1,SC1,M1,ITEM1) :	00119500	
4 5	: (UC2,SC2,M2,ITEM2) > N WORDS	00119600 00119700	
1	(002,002,002,11202)	00119800	
3		00119900	
	(UCP,SCP,MP,ITEMP) :	00120000	
whe	re:	00120200	
2	D is the number of peremeters (D CEO O)	00420400	
whe	P is the number of parameters (P GEQ O) N is the total number of words describing parameters (N GEQ O)	00120400 00120500	
3 7			
3			
*			

2 3	37 Feature - Large Systems Code File Format For 3.5.0 Release	00010504	2
4 5	Each item is a description of a parameter. The items must appear in the order of the required parameters.	00120800 00120900	
6	(O,4,N,GLOBALDIRECTORY)	00121000	6 7
9	GLOBALDIRECTORY has the form:	00121200	9
10 11 12	(UC1,SC1,M1,ITEM1) :	00121400	1
13	: > N WORDS	00121500 00121600	1:
13 14 15	: : (UCP,SCP,MP,ITEMP) :	00121700 00121800	1-
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	where:	00122000	1 1 1 1
19	N is the total number of words in the global directory	00122200	1
21	Each item is a description of something global to an external	00122400	. 2·
22	procedure.	00122500	
24	For a block program, each item must contain:	00122700	2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 4 4 4 4 4
25 26	(O,1,N1,IDENTIFIER)	00122800	2
27	(O, 2, N2, ADDRESSCOUPLE)	00122900	2
28	(O,15,1,NUMBERDIMENSIONS) IF ARRAY (O,7,N7,MPCWPOINTER) IF EXTERNAL PROCEDURE	00123000	2
20	(O,7,N7,MPCWPOINTER) IF EXTERNAL PROCEDURE (O,14,1,LENGTH) IF FORTRAN COMMON BLOCK	00123100 00123200	8
31	(0,3,N3,PARAMETERS) IF PROCEDURE WITH PARAMETERS.	00123300	3
32 33	For a procedure program, each item description must contain the	00123600	3
34	above plus:	00123700	3
36	(O, 6, N6, GLOBALREFERENCES)	00123800	3
37 38	The description for an external procedure is contained in a value	00124100	3
39	array whose descriptor is in the segment dictionary. In this	00124100	3
40 4 1	case, the global directory entry may contain:	00124300	4
42	(UC, SC, 2)	00124400	4
43	(0,17,1,SDI)	00124500	4
45	where SDI is the segment dictionary index for the descriptor, or	00124800	4
46	it may be a normal entry.	00124900	4
38 39 40 41 42 43 44 45 46 47	(0,5,N,D1REFERENCES)	00125000	4
49 50	Direferences has the form:	00125200	
52 52			5 5 5 5 5 5 5 5 5 6
54			5
51 52 53 54 55 56 57 58 59			5 5
57 58			5
59 60			5

1	38		
	Feature - Large Systems Code File Format For 3.5.0 Release	. 00010504	
	SP1 :	00125400	
	:	00125500	
	SP2 > N WORDS	00125600	
]	:	00125700	
i	SPN :	00125800	
X	where each SP is a "SYLLABLE POINTER" to an operator referring to	00126100	
	a level 1 item. The syllable pointer has the form of a PCW with a	00126200	
	TAG of O as follows:	00126300	
	://///:PSR: PIR : :LL: SDI :	00126400	
		0010000	
	where:	00126600	
	PSR=[35:3] = syllable index for start of the operator	00126800	
	PIR=[32:13] = word index for start of the operator	00126900	
	LL =[18:5] = lex level at which the operator is executed	00127000	
	SDI=[13:14] = segment dictionary index for code segment	00127100	
	containing the operator	00127200	
	(O, 6, N, GLOBALREFERENCES)	00127400	
i			
]	GLOBALREFERENCES has the same form as DIREFERENCES. The operator	00127700	
	VALC may reference any level global to the procedure in which it occurs.	00127800 00127900	
	occurs.	00127900	
	(O,7,N,MPCWPOINTERS)	00128000	
	MDOUDOLNESS in a substitution of the second	00400000	-
3	MPCWPOINTER is a syllable pointer to a LT48 operator which is used	00128300	
	to make a literal containing the SDI of the value array descriptor for the external procedure.	00128400 00128500	
	,		
	(O,9,1,NUMBERPARAMETERS)	00128600	4-
	NUMBERPARAMETERS is the number of parameters required by this	00128800	
]	program, procedure or entry.	00129000	
	program, procedure or entry.	00,2000	
	(O, 1O, N, EXTERNALID)	00129100	
	EXTERNALID is a explicit file identifier in KUNKERFORM.	00129400	
	(O,11,N,OWNDIRECTORY)	00129500	
	OWNDIRECTORY is a list of own variables which were declared in a	00129800	
	procedure program. These are items which must be added to the	00129800	
Ì	host D2 stack. The format is the same as that in the global	00130000	
.1	directory.	00130100	
	(O,12,N,OWNREFERENCES)	00130200	
2 2 3 4 5 5 7 7			
1	·		

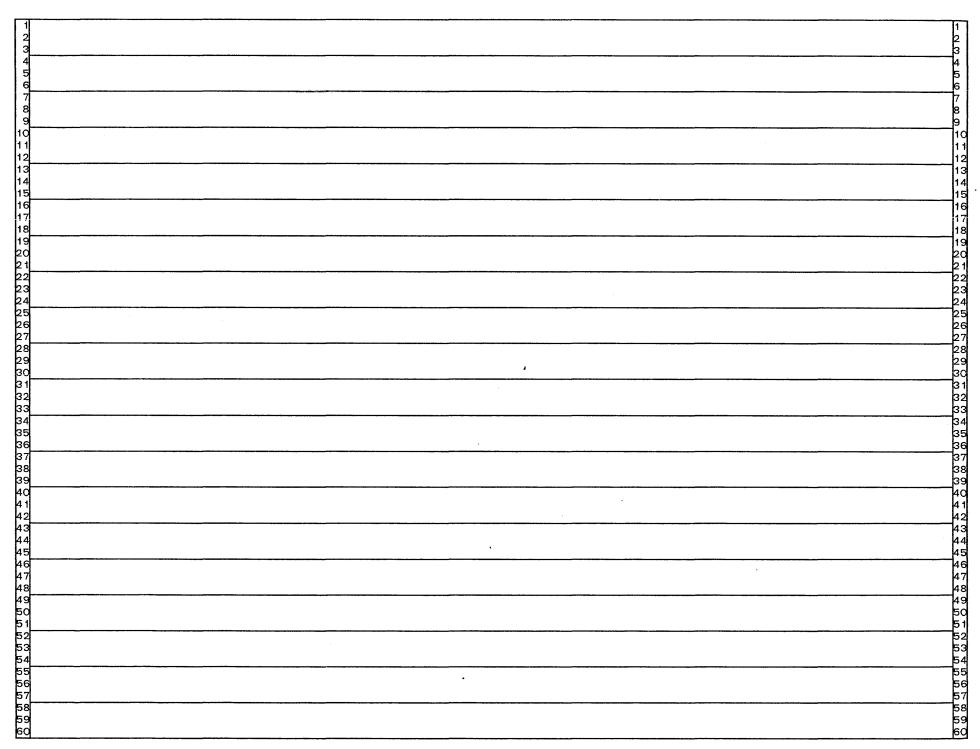
	39		
	Feature - Large Systems Code File Format For 3.5.0 Release	00010504	
	OWNREFERENCES is a list of syllable pointers to all code	00130450	
	references to an own variable.	00130600	
	(O, 13, N, MAKEFIBPOINTERS)	00130700	
	MAKEFIBPOINTERS is a list of syllable pointers to LT48 operators	00131000	
***************************************	for making FIB descriptors. There must be one of these for each	00131100	
	file. It may be in the global directory or directly in the	00131200	
	program description.	00131300	
	(O, 14, N, MAKEARRAYDESCPNTRS)	00131400	
	MAKEARRAYDESCPNTRS is a list of syllable pointers to LT48	00131700	
	operators for making value array descriptors. One of these is	00131800	
	required for each value array (such as format strings) that is not	00131900	
	a file and does not have a D1 descriptor.	00132000	
	(O, 15, 1, NUMBERDIMENSIONS)	00132100	
	NUMBERDIMENSIONS is the number of dimensions (in the ALGOL or	00132400	
	hardware sense) required by an array.	00132500	
	(0,16,1,LENGTH)	00132600	
	LENGTH is the number length in elements of an array.	00132900	
	(0,17,1,SDI)	00133000	
	CDT is the second distinguished to the culture of the control of	0040000	
	SDI is the segment dictionary index of the value array descriptor for an external procedure.	00133300 00133400	
	Tot all external procedure.	00133400	
	(O,18,1,ENDOFD2CODE)	00133500	
•	ENDOFD2CODE is a syllable pointer to the syllable immediately	00133800	
	after the D2 stack building code.	00133900	
	(0,19,1,FIRSTEX)	00134000	
	FIRSTEX is a syllable pointer to the first executable code	00134300	
	syllable of a separately-compiled procedure. (This refers to the	00134400	
	procedure itself, not the pseudo outer block.)	00134500	
	(18,SC,N,PROCEDUREITEM)	00134600	
	or	00134700	
	(20,SC,N,PROCEDUREITEM)	00134800	
	PROCEDUREITEM is a description of a procedure. This may be found:	00135100	
	(1) As the first entry in the program description for a procedure	00135300	
	program.	00135400	
	(2) As an external procedure description.	00135600	
	(3) As an entry in the global directory in either the program	00135800	
	description or an external procedure description.	00135900	

1 4	O Feature - Large Systems Code File Format For 3.5.0 Release	000 10504 2 3
4	A PROCEDUREITEM must include:	00136100 4 5
6	(O,1,N,IDENTIFIER)	00136200
7	(O,2,1,ADDRESSCOUPLE) (O,3,N,PARAMETERS) IF IT HAS PARAMETERS	00136300 7 00136400 8
9	(O,3,N,PARAMETERS) IF IT HAS PARAMETERS (O,7,1,MPCWPOINTER) IF EXTERNAL PROCEDURE DESCRIPTION	00136400 9
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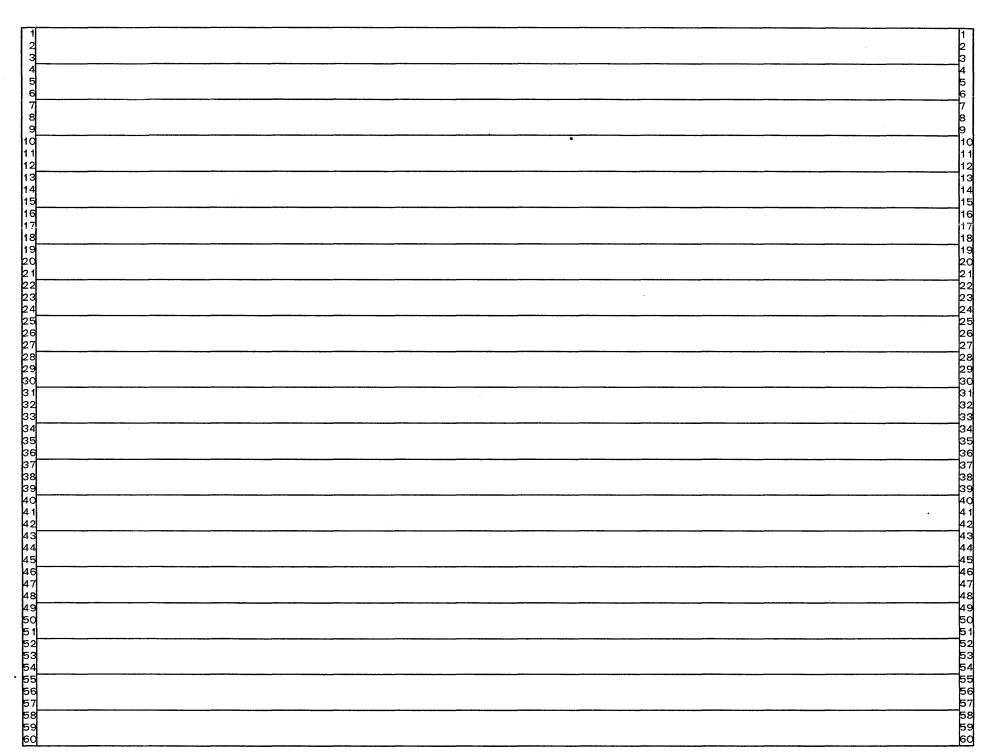
	WORKFILE [NOT NAMED] 5:03	PM TUESDAY, APRIL 9, 1985
	DEFINE % ESPOL FIELDS	12260000 31.061.240
12260000	% FIELDS IN FIRST WORD OF FYENT	12260200 31.061.240
12260200	6 FIELDS IN FIRST WORD OF EVENT	12260400 32.044.309
12260800	DDDCUDEDATA= 126:251# % UDANG EEDDED EDOM DDDCUDED LINKWODD	12260800 351022452
12261000	, PROCUREDA IAF-[30:33]# % IRANSTERRED FROM PROCURER LINAWORD DDOCHDEDE -[30:38175]# % STACK WHICH EIVEN OD DDOCHDED	12261000 351022452
12261400	, PROCURER -[30:3N312E]# % STACK WHICH FIXED OR PROCURED	12261400 351022452
12261600	EVENTALIME = [24.21]# % LINGAGE TO WAITING STACK.	12261600 351022452
12261800	, EVENTSNDE =[14.5NSIJE]# % STACK NUMBED:	12261800 35.026.736
12262000	INAVATIARI FF=[2:1]# % NOT AVATIARIF(FVFNT)	12262000 31.061.240
12262200	HAPPENEDRITE=[0:1]# % HAPPENED(EVENT)	12262200 31.061.240
12262240	% VALUES OF THE EVENTUSAGE FIELD	12262240 32.044.309
12262260	. EVUNUSED = 0 # % SECOND WORD NOT IN USE	12262260 32.044.309
12262280	. EVRWTLOCK = 1 # % EVENT USED AS READ/WRITER/THINKER	12262280 32.044.309
12262300	, EVINTATTACHED = 2 # % SOFTWAREINTERRUPT ATTACHED	12262300 32.044.309
12262320	, EVINSCRIBED = 3 # % EVENT INSCRIBED WITH SIGNATURE	12262320 32.044.309
12262340	% FIELDS IN 2ND WORD OF EVENT WHEN INSCRIBED WITH A SIGNATURE	12262340 32.044.309
12262360	% THE WHOLE WORD IS THE INDEX INTO THE GETAREA POOL OF THE MEMO	12262360 32.044.309
12262400	DEFINE % ESPOL FIELDS % FIELDS IN FIRST WORD OF EVENT EVENTUSAGEF = [47:2] # % USAGE OF SECOND WORD OF EVENT . PROCUREDATAF= [36:35] # % TRANSFERRED FROM PROCURER LINKWORD . PROCURERF = [36:SNSIZE] # % STACK WHICH FIXED OR PROCURED . EVENTQHEADF = [24:21] # % LINKAGE TO WAITING STACK: . EVENTNUMF = [24:9] # % RELATIVE INDEX (0,2,4) . EVENTSNRF = [15:SNSIZE] # % STACK NUMBER . UNAVAILABLEF= [2:1] # % NOT AVAILABLE (EVENT) . HAPPENEDBITF= [0:1] # % HAPPENED (EVENT) % VALUES OF THE EVENTUSAGE FIELD . EVUNUSED = 0 # % SECOND WORD NOT IN USE . EVUNUSED = 0 # % SECOND WORD NOT IN USE . EVINTATTACHED = 2 # % SOFTWARE INTERRUPT ATTACHED . EVINSCRIBED = 3 # % EVENT USED AS READ/WRITER/THINKER . EVINSCRIBED = 3 # % EVENT INSCRIBED WITH SIGNATURE % FIELDS IN 2ND WORD OF EVENT WHEN INSCRIBED WITH A SIGNATURE % THE WHOLE WORD IS THE INDEX INTO THE GETAREA POOL OF THE MEMO % FIELDS IN 2ND WORD OF EVENT WHEN ATTACHED TO SOFTWARE INTERRUPT FIELDS IN 2ND WORD OF EVENT WHEN ATTACHED TO SOFTWARE INTERRUPT % THE WHOLE WORD IS AN ABSOLUTE ADDRESS TO A LINKAGE AREA. % FIELDS IN 2ND WORD OF EVENT WHEN USED AS READER/WRITER/THINKER LOCK . READERCOUNTF= [23:12] # % NUMBER OF READERS . THINKERSNRF = [35:SNSIZE] # % STACK NUMBER OF THE THINKER, OR O . WRITINGF = [0:1] # % THE THINKER STACK IS WRITER % FIELDS IN A LINKWORD (FOR AN EVENT) IN THE SIDECAR , EVLINK_STATEF = [45:02] # % STACE OF THE LINKWORD . EVLINK_CAUSEDV = 1'00' # % MARKS EVENT THAT WOKE UP STACK . EVLINK_CAUSEDV = 1'01' # % MARKS EVENT THAT WOKE UP STACK . EVLINK_DISCARDV = 1'11' # % NOT LINKED TO AN EVENT	12262400 31.055.217
12262600	% THE WHOLE WORD IS AN ABSOLUTE ADDRESS TO A LINKAGE AREA.	12262600 31.082.217
12262800	% FIELDS IN 2ND WORD OF EVENT WHEN USED AS READER/WRITER/THINKER LOCK	12262800 31.055.217
12263000	, READERCOUNTF=[23:12]# % NUMBER OF READERS	12263000 31.061.240
12263200	, THINKERSNRF =[35:SNSIZE]# % STACK NUMBER OF THE THINKER, OR O	12263200 35.026.736
12263400	, WRITINGF =[0:1]# % THE THINKER STACK IS WRITER	12263400 31.061.240
12263410	% FIELDS IN A LINKWORD (FOR AN EVENT) IN THE SIDECAR	12263410 351022452
12263420	, EVLINK_STATEF =[45:02]# % STATE OF THE LINKWORD	12263420 351022452
12263430	, EVLINK_NORMALV =1'00'# % LINKED TO AN EVENT	12263430 351022452
12263440	, EVLINK CAUSEDV =1'01'# % MARKS EVENT THAT WOKE UP STACK	12263440 351022452
12263450	, EVLINK_DISCARDV =1'11'# % NOT LINKED TO AN EVENT	12263450 351022452
12263460	, EVLINK_TIMEV =1'10'# % LINKWORD IS LINKED IN CALENDAR	12263460 351022452
12263470	, EVLINK_STATEF = [45:02]# % STATE OF THE LINKWORD , EVLINK_NORMALV = 1'OO'# % LINKED TO AN EVENT , EVLINK_CAUSEDV = 1'OI'# % MARKS EVENT THAT WOKE UP STACK , EVLINK_DISCARDV = 1'11'# % NOT LINKED TO AN EVENT , EVLINK_TIMEV = 1'10'# % LINKWORD IS LINKED IN CALENDAR % PROCUREDATAF = [36:35]# % USED FOR PROCURING EVENT % PROCURERF = % USED FOR PROCURING EVENTS % EVENTQHEADF = % USED FOR PROCURING AND WAITING % UNAVAILABLEF = [2:1]# % USED FOR PROCURING EVENTS % FIELDS IN CALENDAR LINKWORD (1ST OF PAIR) , CALTYPEF = [47:2]# % WHAT TO DO AT THE SPECIFIED TIME % EVLINK_STATEF=[45:02]# % SET TO EVLINK TIMEV WHEN LINKED IN	12263470 351022452
12263480	% PRUCURERF = % USED FOR PROCURING EVENTS	12263480 351022452
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12265200	, NOTDSABLEF =[47:1]# % DSABLE OPTION (FROM COMPILER)	12265200 31.153.521
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12266200	, SWAPF =[3:2] # % SWAP OPTIONS (TEMP) (FROM COMPILER)	12266200 31.153.521
12266400	, SWAPNOWV =1'11'# % SWAP IMMEDIATELY	12266400 32.048.390
12266600	, DELAYSWAPV =1'01'# % SWAP IF STILL ASLEEP AFTER WHILE	12266600 32.048.390
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12267000	% 1'OO' % NO RECOMMENDATION	12267000 32.048.390
12267200	, RESETF =[O:1]# % RESET EVENT (FROM COMPILER)	12267200 31.153.521
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1 12268000 . EVENTOFFSETF = 35: 16 // % OFFSET TO EVENTS IN STACK 12268000 351022452 2 12268010	1 2 3 4 4 5 5 6 6 7 7 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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37 12268080 % MULTIPLEWAIT CASE. 12268080 351022452	
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14	177000	FILE ATTRIBUTE SECTION.	00177000	4
5	177500	TITLE O CHAME DETERITY LITER HEL COMBILERS	00177500 32.123.013	þ
	178000	TITLE O <name> PRIORITY HIGH WFL COMPILERS</name>	00178000 29.012.008	
7 8	179000	PARAMETERS 10PT, FILESECTION 1 <integer> WFL</integer>	00179000	1
9	180000 181000	COMPILERS,	00180000 29.012.008 00181000 29.012.008	B
liđ	182000	REEL = FILESECTION.	00182000	
11	183000	CREATIONDATE 2 <integer> WFL</integer>	00183000 29.012.008	
12	184000	COMPILERS READONLY ,	00184000 29.012.008	12
13	185000	DATE = CREATIONDATE.	00185000	12 13
14	186000	CYCLE 3 <integer> WFL COMPILERS</integer>	00186000 29.012.008	
14 15	187000	CATALOG LIBMAINT .	00187000 29.012.008	119
16	188000	VERSION 4 <integer> WFL COMPILERS</integer>	00188000 29.012.008	10
16 17	189000	CATALOG LIBMAINT .	00189000 29.012.008	147
18	190000	SAVEFACTOR 5 <integer> WFL</integer>	00190000 29.012.008	18
19	191000	COMPILERS ,	00191000 29.012.008	19
20	192000	DENSITY 6 <integer> MNEMONIC BPI200/BPI556/BPI800/BPI1600/BPI6250/</integer>		20
19 20 21 22 23 25 26 27 28 29 30	193000	LOW/MEDIUM/HIGH/SUPER WFL COMPILERS ,	00193000 31.157.015	2
22	194000	PARITY 7 <integer> MNEMONIC STANDARD/NONSTANDARD/ODD/EVEN</integer>	00194000 35.028.008	22
23	195000	WFL COMPILERS ,	00195000 29.012.008	23
24	196000	KIND CASE 8 <kind> PRIORITY HIGH MNEMONIC</kind>	00196000 29.012.008	2
25	196100	DONTCARE SA/NOUNIT SA/DISK SA/ODT SA/	00196100 35.039.013	25
26	197000	REMOTE SA/PAPERREADER SA/PAPERPUNCH SA/PRINTER SA/	00197000 35.151.028	26
27	197050	HY SA/READER SA/	00197050 35.151.028	27
28	197100	PUNCH SA/DISKETTE SA/	00197100 30.031.008	28
29	197200	PORT SA/HC SA/	00197200 34.058.012	29
Bd	197500	ASID SA/FPSAP SA/	00197500 35.079.023	3(
31 32 33 34 35 36	197550	CSMA SA/	00197550 35.074.020	14 15 16 17 18 20 22 22 25 25 25 27 28 33 33 33 34 34 44 45 46 47 48 48
32	197600	SPC SA/	00197600 35.038.011	32
k3	198000	TAPET SA/TAPE9 SA/TAPEPE SA/TAPE SA/PACK SA	00198000 34.043.010	
134	198010	WFL COMPTLEDS CATALOG VOLUME LIDMATAIT	00198010 29.012.008	134
P ₂	199000	COMPILERS CATALOG VOLUME LIBMAINT ,	00199000 29.012.008	35
P.	200000	LABEL 9 <integer> MNEMONIC OMITTED/STANDARD/</integer>	00200000 29.012.008	
37 38 39 40	201000 202000	OMITTEDEOF WFL COMPILERS , LABELTYPE = LABEL.	00201000 29.012.008 00202000	5
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12	204000	BCL/EBCDIC/ASCII/BINARY WFL COMPILERS ,	00204000 29.012.008	——B
[4	205000	OPTIONAL 11 <boolean> MNEMONIC TRUE/FALSE/</boolean>	00205000 29.012.008	Ľ.
4 1 42	206000	<pre></pre>	00206000 29.012.008	4
43	207000	PROTECTION 12 <integer> MNEMONIC TEMPORARY/</integer>	00207000 29.012.008	——[4:
43 44 45	208000	SAVE/PROTECTED WFL COMPILERS ,	00208000 29.012.008	42
45	209000	FILETYPE 13 <integer> PRIORITY HIGH WFL</integer>	00209000 29.012.008	49
46	210000	COMPILERS ,	00210000 29.012.008	46
47	211000	BLOCKSIZE 14 <integer> PRIORITY HIGH WFL</integer>	00211000 29.012.008	4
46 47 48	212000	COMPILERS,	00212000 35.001.001	48
49	213000	MAXRECSIZE 15 <integer> PRIORITY HIGH WFL</integer>	00213000 29.012.008	49
50	214000	COMPILERS PARAMETERS 10PT ,	00214000 32.052.007	þ50
51	215000	MINRECSIZE 16 <integer> WFL</integer>	00215000 29.012.008	50 5
52	216000	COMPILERS ,	00216000 29.012.008	5:
52 53 54	217000	AREASIZE 17 <integer> PRIORITY HIGH WFL</integer>	00217000 29.012.008	5
54	218000	COMPILERS ,	00218000 29.012.008	5
 55	219000	AREAS 18 <integer> PRIORITY HIGH WFL COMPILERS,</integer>	00219000 29.012.008	5
56	220000	APL 19 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> COMPILERS,</nul></boolean>	00220000 33.046.012	5
55 56 57 58 59	221000	MYUSE 20 <integer> PRIORITY HIGH MNEMONIC CLOSED/IN/OUT/IO</integer>	00221000 29.012.008	5
58	222000	WFL COMPILERS ,	00222000 29.012.008	5
59	223000	OTHERUSE 21 <integer> MNEMONIC SECURED/IN/</integer>	00223000 29.012.008	55 55 55 55 56 57 56
60	224000	OUT/IO WFL COMPILERS ,	00224000 29.012.008	

1	225000	FLEXIBLE 22 <boolean> PRIORITY HIGH MNEMONIC TRUE/FALSE/</boolean>	00225000 29.012.008	1
2	226000	<nul true=""> WFL COMPILERS ,</nul>	00226000 29.012.008	p
3	227000	IAD 23 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> COMPILERS READONLY,</nul></boolean>	00227000 29.012.008	_ 3
14	230000	BUFFERS 26 <integer> WFL COMPILERS,</integer>	00230000	4
5	231000	DIRECTION 27 <integer> MNEMONIC REVERSE/FORWARD WFL COMPILERS,</integer>	00231000	5
6	232000	CURRENTBLOCK 28 <integer> COMPILERS READONLY,</integer>	00232000	6
I →	233000	INTMODE 29 <integer> MNEMONIC SINGLE/HEX/BCL/EBCDIC/ASCII WFL</integer>	00233000	——————————————————————————————————————
8	234000	COMPILERS.	00234000	6
13	235000	OPEN 30 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> COMPILERS,</nul></boolean>		6
l.∄–			00235000 33.046.012	
10	236000	PRESENT 31 <boolean> MNEMONIC TRUE/FALSE COMPILERS READONLY,</boolean>	00236000	1,
11.11	237000	SIZEMODE 32 <integer> MNEMONIC SINGLE/HEX/BCL/EBCDIC/ASCII WFL</integer>	00237000	11
12	238000	COMPILERS,	00238000]1:
13	239000	SIZEOFFSET 33 <integer> WFL COMPILERS,</integer>	00239000	[1:
14	240000	SIZE2 34 <integer> WFL COMPILERS,</integer>	00240000	1-
15	241000	STATE 35 <real> COMPILERS READONLY PARAMETERS 10PT,</real>	00241000 32.052.007	1.
16	242000	EOF 36 <boolean> MNEMONIC TRUE/FALSE COMPILERS READONLY,</boolean>	00242000	11
17	242700	DMAREALOCK 38 <integer> COMPILERS PARAMETERS 1REQ10PT,</integer>	00242700 32.141.014	11
18	242800	DMROWLOCK = DMAREALOCK,	00242800 32.141.014	1:
19	243000	FAMILYNAME 39 <identifier> PRIORITY HIGH WFL COMPILERS CATALOG,</identifier>	00243000 003	
bd	244000	PACKNAME = FAMILYNAME,	00244000	11 22 22 22 22 24 24 25 33 33 33
20 21_	245000	SINGLEUNIT 40 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>	00244000	, h
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22 23 24 25 26 27	246000	LIBMAINT,	00246000 29.012.008	K:
23	247000	SINGLEPACK = SINGLEUNIT,	00247000	2
24—	248000	CYLINDERMODE 41 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS,</nul></boolean>	00248000	<u>2</u>
25	249000	RESIDENT 42 <boolean> MNEMONIC TRUE/FALSE COMPILERS READONLY,</boolean>	00249000	1 21
26	250000	BLOCK 44 <integer> COMPILERS READONLY,</integer>	00250000	120
27_	251000	CARRIAGECONTROL 45 <integer> MNEMONIC STANDARD/CTLASA/CTL360 WFL</integer>	00251000	2
28 29	252000	COMPILERS,	00252000	2:
29	253000	RECORD 46 <integer> COMPILERS READONLY,</integer>	00253000	<u>þ</u>
βd_	254000	UPDATEFILE 47 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS,</nul></boolean>	00254000	34
BIL	255000	AVAILABLE 48 <integer> COMPILERS READONLY.</integer>	00255000	3
3	256000	LASTRECORD 49 <integer> COMPILERS.</integer>	00256000	3
32 33	257000	PAGESIZE 50 <integer> WFL COMPILERS PARAMETERS 10PT,</integer>	00257000	Į,
[Z]-	258000	PAGE 51 <integer> COMPILERS,</integer>	00258000	
34 35 36				3: 3: 3: 3: 3: 4:
ည်သ	259000	LINENUM 52 <integer> COMPILERS,</integer>	00259000	5
[일_	. 260000	FORMID 54 <string> WFL COMPILERS,</string>	00260000 29.053.020	3
37	261000	FORMMESSAGE = FORMID,	00261000	្ន
38 39	262000	FORMESSAGE =FORMMESSAGE,	00262000	3
	263000	UPDATED 57 <boolean> MNEMONIC TRUE/FALSE COMPILERS READONLY,</boolean>	00263000	
40	264000	FILEKIND 58 <integer> MNEMONIC NULLFILE/DIRECTORY/SYSTEMDIRECTORY/</integer>	00264000 29.023.006	4
41	264 100	VERSIONDIRECTORY/	00264100 29.023.006	4
42	265000	CATALOG/BACKUPDISK/RECONSTRUCTIONFILE/SYSTEMDIRFILE/	00265000 29.023.006	4
43	265500	ARCHIVELOG/BOOTCODE/MDLCODE/MDLSYMBOL/	00265500 35.073.019	4 4 4 4 4 4 4
44	265600	REMOTEAUDIT/REMOTEBACKUP/	00265600 31.143.013	4
44 45	266000	JOBDESCFILE/XDISKFILE/COMPILERCODEFILE/CHECKPOINTFILE/CPJOBFILE/	00266000	4
46	267000	DCPCQDE/NDLCQDE/LIBRARYCQDE/INTRINSICFILE/MCPCQDEFILE/ALGQLCQDE/	00267000	
46 47	268000	COBOLCODE/FORTRANCODE/XALGOLCODE/PLICODE/JOVIALCODE/ESPOLCODE/	00268000	Li Li
48	269000	DCALGOLCODE/BASICCODE/XFORTRANCODE/JOBCODE/BOUNDCODE/CODEFILE/	00269000	G
49	270000	ALGOLSYMBOL/COBOLSYMBOL/FORTRANSYMBOL/XALGOLSYMBOL/PLISYMBOL/	00270000	Ľ
ρŲ	271000	JOVIALSYMBOL/ESPOLSYMBOL/DCALGOLSYMBOL/BASICSYMBOL/XFORTRANSYMBOL/	00271000	
51_	272000	BINDERSYMBOL/DASDLSYMBOL/DMALGOLSYMBOL/DCPSYMBOL/NDLSYMBOL/DATA/	00272000	5 5 5 5 5 5 5 5 5 6
52	273000	SEQDATA/GUARDFILE/APLDATA/APLWORKSOURCE/CDATA/CSEQDATA/	00273000	· [5
53	273500	RECOVERYFILE/DMALGOLCODE/JOBSYMBOL/	00273500 29.004.001	þ 5
52 53 54 55 56 57	273600	BACKUPPRINTER/INFOFILE/	00273600 34.043.010	5
55	273700	VFORTRANSYMBOL/VFORTRANCODE/VLINKEDCODE/VMCPCODE/	00273700 29.051.016	5
56	273710	LCOBOLSYMBOL/LCOBOLSL3CODE/LCOBOLSL5CODE/	00273710 33.003.002	- l 5
57	273720	SFORTRANSYMBOL/ SFORTRANCODE/ SLINKEDCODE/ SMCPCODE/	00273720 33.003.002	ls ls
58	273730	FIRMWARE/	00273730 35.073.019	5
58 59 60	273740	NEWPSYMBOL/NEWPCODE/	00273740 33.003.002	Ē
27	273745	PAGEBACKUP/FONT/FORM/GRAPHICS/	00273745 34.042.008	2
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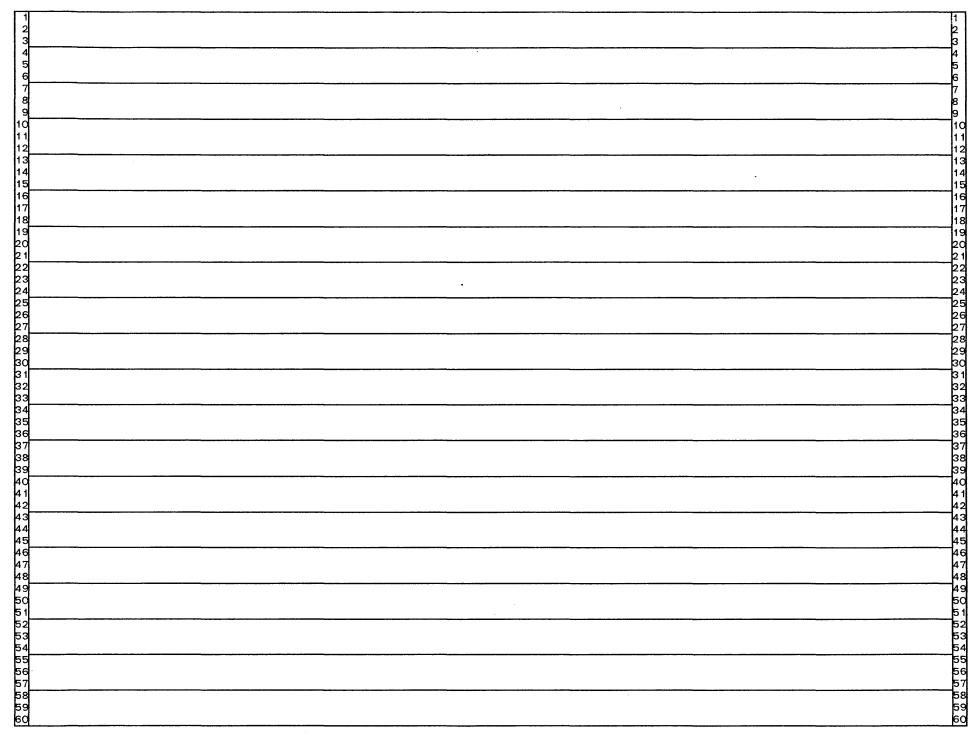
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13	273770	RPGSYMBOL/RPGCODE/		33.003.002	ĥ
1 1	273780	NDLIISYMBOL/NDLIICODE/		33.003.002	
13	273790	FORTRAN77SYMBOL/FORTRAN77CODE/		33.003.002	Ę
9	273800	SORTSYMBOL/SORTCODE/		34.005.001	2
4	273847	MDTTEST/MDTDUMP/PROMBURNERDATA/CONFIGURATIONDATA/CONFIDENCECODE/		32.7X.001	
14		BDDATA/MP1FIRMWARE/MP1ALGOLCODE/			Ľ
8	273850	· · · · · · · · · · · · · · · · · · ·		33.101.013	B
1.9_	273900	COBOL74SYMBOL/COBOL74CODE/		34.017.003	—— ⁹
10	273950	OHNESYMBOL/TEXTDATA/PRINTERCONTROLFILE/	00273950		10
11	274000	DBRESTARTSET/DBDATA/BACKUPPUNCH/SCHEDULEFILE COMPILERS WFL,		29.017.004	
12_	275000	CRUNCHED 59 <boolean> MNEMONIC TRUE/FALSE COMPILERS</boolean>	00275000		12
13	276000	READONLY,	00276000		
14	277000	ROWSINUSE 60 <integer> COMPILERS READONLY,</integer>	00277000		1:2 1:
15	278000	USEDATE 61 <integer> COMPILERS READONLY, ROWADDRESS 64 <integer> COMPILERS READONLY PARAMETERS 1REQ10PT, INTERCHANGE 66 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean></integer></integer>	00278000		15
16	279000	ROWADDRESS 64 <integer> COMPILERS READONLY PARAMETERS 1REQ10PT,</integer>	00279000	29.012.008	16
17	280000	INTERCHANGE 66 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>			[17
18_	281000	LIBMAINT,	00281000	29.012.008	18
19	282000	IC = INTERCHANGE,	00282000		19
	283000	DUPLICATED 67 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS,</nul></boolean>	00283000		20
21	284000	COPIES 69 <integer> WFL COMPILERS,</integer>	00284000		2
22	285000	INTNAME 72 <identifier> COMPILERS,</identifier>	00285000	003	<u> </u> 2:
23	286000	UNITS 73 <integer> MNEMONIC CHARACTERS/WORDS/TRUE/FALSE/<nul characters=""></nul></integer>	00286000		b :
20 21 22 23 24 25 26 27	287000	WFL COMPILERS.	00287000		16 11 18 19 20 21 22 22 25 20 21 22 25 33 33 33 33 33 34 44 44 44 44 44 44 44
25	288000	ATTERR 74 <boolean> MNEMONIC TRUE/FALSE COMPILERS READONLY,</boolean>	00288000		
6	289000	ATTYPE 75 <integer> MNEMONIC * COMPILERS READONLY,</integer>	00289000	29.023.007	5
57	290000	ATTVALUE 76 <real> COMPILERS READONLY,</real>	00290000	23.023.007	5.
28	291000	IOCLOCKS 77 <real> COMPILERS READONLY.</real>	00291000		
28 29 30	292000	UNITNO 78 <integer> WFL COMPILERS CATALOG LIBMAINT,</integer>	00292000	29.012.008	50
60	293000	SECURITYGUARD 79 <name> WFL COMPILERS.</name>	00293000	23.012.000	50
31		SECURITYTYPE 80 <integer> MNEMONIC PRIVATE/PUBLIC/GUARDED/CONTROLLED</integer>	00294000	31.041.003	
20	294000	WFL COMPILERS.	00295000		, S
32 33	295000			31.041.003	<u>ا</u>
23	296000	SECURITYUSE 81 <integer> MNEMONIC SECURED/IN/OUT/IO WFL COMPILERS,</integer>	00296000		
34 35	299000	READCHECK 83 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS,</nul></boolean>	00299000		34
35	300000	RECORDINERROR 84 <integer> COMPILERS READONLY,</integer>	00300000		ان ام
36	301000	ERRORTYPE 85 <integer> MNEMONIC NOERROR/SUNOTREADY/READPARITYERROR/</integer>	00301000		
37	302000	READCHECKFAILURE COMPILERS READONLY PARAMETERS 10PT,	00302000		3
38 39	303000	IOINERROR 87 <boolean> MNEMONIC TRUE/FALSE COMPILERS READONLY,</boolean>	00303000		38
	304000	TAPEREELRECORD 88 <integer> COMPILERS READONLY,</integer>	00304000		39
40	304500	DMTIMESTAMP 89 <real> COMPILERS,</real>	00304500	29.041.015	140
41	305000	EXCLUSIVE 90 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS, TRANSLATE 91 <integer> MNEMONIC DEFAULTTRANS/FULLTRANS/SOFTONLY/</integer></nul></boolean>	00305000		14
42	306000	TRANSLATE 91 <integer> MNEMONIC DEFAULTTRANS/FULLTRANS/SOFTONLY/</integer>	00306000		
43	307000	FORCESOFT/NOSOFT/NOTRANS WFL COMPILERS,	00307000		μ:
44 45	308000	TRANSLATING 92 <boolean> MNEMONIC TRUE/FALSE COMPILERS READONLY,</boolean>	00308000		144
45	309000	INPUTTABLE 93 <translationtable> COMPILERS WRITEONLY,</translationtable>	00309000		4!
46 47	310000	OUTPUTTABLE 94 <translationtable> COMPILERS WRITEONLY,</translationtable>	00310000	29.012.008	4
47	311000	USECATALOG 95 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS,</nul></boolean>	00311000		4.
48	312000		00312000	29.012.008	48
49	313000	GENERATION 96 <integer> WFL CATALOG LIBMAINT COMPILERS, SENSITIVEDATA 97 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL LIBMAINT COMPILERS.</nul></boolean></integer>	00313000		49
5a	314000	LIBMAINT COMPILERS,	00314000	29.012.008	50
51	315000	FAMILYINDEX 98 <integer> WFL LIBMAINT COMPILERS PARAMETERS 20PT,</integer>		29.053.020	5
52	317000	STATIONCOUNT 99 <integer> COMPILERS READONLY.</integer>	00317000		ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ
53	318000	FAMILYSIZE = STATIONCOUNT.	00318000		5
54	319000	POPULATION 100 <integer> COMPILERS READONLY,</integer>	00319000		5.
55	320000	STATIONLIST 101 <simplename> COMPILERS WRITEONLY.</simplename>	00320000	31.215.029	
52	321000	FAMILY = STATIONLIST.	00320000	5,12,5.025	5
E A	321000	ENABLEINPUT 102 <boolean> MNEMONIC TRUE/FALSE COMPILERS</boolean>	00321000		Ę.
E%	323000	READONLY PARAMETERS 10PT.	00322000		——Ľ,
53 54 55 56 57 58 59		STATIONSDENIED 103 <integer> COMPILERS READONLY.</integer>	00323000		Ε.
23	324000				5
bΟ	325000	TRAINID 104 <integer> MNEMONIC ASCII72/BCL64/EBCDIC18/EBCDIC48/</integer>	00325000		

1	326000	EBCDIC72/EBCDIC96/NOID WFL COMPILERS,	00326000		1
2	327000	TIMELIMIT 105 <real> WFL COMPILERS,</real>	00327000		2 3
13	328000	LASTSUBFILE 106 <integer> COMPILERS,</integer>	00328000	32.052.007	В
14	328500	LASTSTATION = LASTSUBFILE.		32.052.007	4
5	329000	RECEPTIONS 107 <integer> COMPILERS READONLY PARAMETERS 10PT.</integer>	00329000		5
l d	330000	CENSUS 108 <integer> COMPILERS READONLY PARAMETERS 10PT,</integer>		29.051.019	Ē
17	330100				Ľ
1.4		NORESOURCEWAIT 109 <boolean> MNEMONIC TRUE/FALSE/<nul true=""></nul></boolean>	00330100		Ľ
8	330200	WFL COMPILERS,	00330200		8
	331000	DISPOSITION 111 <integer> COMPILERS READONLY PARAMETERS 10PT,</integer>		32.052.007	1-
10	332000	TRANSMISSIONS 112 <integer> COMPILERS READONLY PARAMETERS 10PT,</integer>	00332000		10
111	333000	ASSIGNTIME 113 <integer> COMPILERS READONLY PARAMETERS 1REQ,</integer>	00333000		1:
11	333100	TANKING 114 <integer> MNEMONIC UNSPECIFIED/NONE/SYNC/ASYNC</integer>	00333100	29.038.014	11:
13 14 15	333120	COMPILERS WFL,	00333120	29.035.014	h
14	334000	SCREEN 116 <boolean> MNEMONIC TRUE/FALSE COMPILERS READONLY</boolean>	00334000		114
15	335000	PARAMETERS 1REQ.	00335000		١,,
16	336000	TRANSMISSIONNO 117 <integer> COMPILERS READONLY PARAMETERS 1REQ,</integer>		31.215.029	1:2
1,3					l.`
17	337000	TRANSMISSIONO = TRANSMISSIONNO,		31.215.029	14 19 10 13
18	338000	WIDTH 118 <integer> COMPILERS READONLY PARAMETERS 1REQ,</integer>	00338000		118
19	339000	SERIALNO 119 <serialno> COMPILERS WEL LIBMAINI CATALOG VOLUME</serialno>		29.053.020	19
20	339010	PARAMETERS 10PT,		29.053.020	20
19 20 21 22 23 24 25 26 27	357020	BACKUPKIND 135 <integer> MNEMONIC</integer>	00357020	29.051.017	2
22	357040	DONTCARE/ DISK/ PACK/ TAPE/ TAPE7/ TAPE9/ TAPEPE		31.215.029	2:
23	357060	WFL COMPILERS,		30.021.006	b:
64	357100	NEWFILE 136 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS,</nul></boolean>		31.057.007	6
냚	357110	EXTENT 137 <integer> WFL COMPILERS,</integer>		30.031.008	Ь.
23				30.031.000	۲,
20	357120	WRITECHECK 138 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS,</nul></boolean>		30.031.008	K.
197 L	357130	CURRENTEXTENT 139 <integer> WFL COMPILERS READONLY,</integer>		30.031.008	Ρ.
28	357140	MYNAME 140 <name> WFL COMPILERS,</name>		30.031.007	78
29	357150	YOURNAME 141 <name> WFL COMPILERS PARAMETERS 10PT,</name>		32.052.007	29
Вq	357160	FILEUSE 142 <integer> PRIORITY HIGH MNEMONIC IN/OUT/IO</integer>	00357160	31.092.008	30
28 29 30 31	357170	WFL COMPILERS.	00357170		190 22222222333333333344444444444444444444
32	357180	HOSTNAME 143 <identifier> WFL COMPILERS LIBMAINT PARAMETERS 10PT.</identifier>		32.052.007	b:
32 33	357190	FILEORGANIZATION 144 <integer> MNEMONIC NOTRESTRICTED/RELATIVE/INDEXED/</integer>		33.121.017	3:
64	357195	INDEXEDNOTRESTRICTED/PLIISAM		35.039.012	6
53	357200	·		31.167.017	5.
34 35 36 37		WFL COMPILERS,		31.107.017	Ľ:
130	357210	HSDIALOGNO 145 <integer> COMPILERS,</integer>		31.186.025	3
37	357220	TIMESTAMP 146 <real> COMPILERS READONLY,</real>		32.141.014	В.
38	357230	HSFILECOPY 147 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> COMPILERS</nul></boolean>	00357230	32.141.014	38
38 39	357240	READONLY,	00357240	32.141.014	3
40	357250	KEYEDIOKEYS 148 <real> COMPILERS WRITEONLY</real>	00357250	35.047.014	40
40 41	357260	,ACCESSMODE 149 <integer> MNEMONIC SEQUENTIALACCESS/</integer>		32.141.014	4
ادما	357270	RANDOMACCESS/DYNAMICACCESS COMPILERS		32.141.014	4
42 43	357280	WRITEONLY		32.141.014	Ь.
				32.141.014	C
44 45	357290	, MAXSUBFILES 150 <integer> WFL COMPILERS</integer>		22.141.014	۲,
12	357300	,MYHOSTNAME 151 <identifier> WFL COMPILERS READONLY</identifier>			Ľ
46 47 48 49	357310	, MYHUSTNAME 151 <identifier> WFL COMPILERS READONLY ,INPUTEVENT 152 <event> COMPILERS READONLY PARAMETERS 10PT</event></identifier>		32.141.014	4
47	357320	OUTPUTEVENT 153 <event> COMPILERS READONLY PARAMETERS 10PT</event>		32.141.014	4
48	357330	CHANGEEVENT 154 <event> COMPILERS READONLY PARAMETERS 10PT</event>	00357330	32.143.015	48
49	357340	,INPUTEVENT 152 <event> COMPILERS READONLY PARAMETERS 10PT ,OUTPUTEVENT 153 <event> COMPILERS READONLY PARAMETERS 10PT ,CHANGEEVENT 154 <event> COMPILERS READONLY PARAMETERS 10PT ,YOURUSERCODE 155 <identifier> WFL COMPILERS PARAMETERS 10PT ,COMPRESSION 156 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS PARAMETERS 10PT</nul></boolean></identifier></event></event></event>	00357340	32.141.014	48
5d	357350	, COMPRESSION 156 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>	00357350	32.141.014	50
51	357360	PARAMETERS 10PT		32.141.014	5
투하	357370	, MAXCENSUS 157 <integer> WFL COMPILERS PARAMETERS 10PT</integer>	00357370	32.141.014	Ē
E 4			00357370	22 141 014	E
53	357380	, CHANGEDSUBFILE 158 <integer> COMPILERS READONLY</integer>		32.141.014	۲,
52 53 55 56 57 58 59	357390	,AREALENGTH 159 <integer> PRIORITY HIGH WFL COMPILERS</integer>		32.141.014	P
55	357400	AREAALLÖCÄTED 160 <boolean> MNEMONIC TRUE/FALSE WFL COMPILERS READONLY</boolean>	00357400	32.141.014	þ
56	357410	PARAMETERS 1REQ10PT	00357410	32.141.014	Þ
57	357420	FRAMESIZE 161 <integer> PRIORITY HIGH WFL COMPILERS</integer>	00357420	32.141.014	5
58	357430	FILENAME 162 <name> PRIORITY HIGH WFL COMPILERS</name>	00357430	32.141.014	5
59	357440	COPYNAME 163 <name> COMPILERS READONLY PARAMETERS 1REQ</name>	00357440	32.141.014	5 5 5 5 5 5 5 5 5 6
60	357450	,STATIONNAME 164 <name> COMPILERS READONLY PARAMETERS 1REQ</name>	00357450	32.141.014	6
2	JU. 100	yu	000000		1-

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1	357460	BLOCKSTRUCTURE 165 <integer> PRIORITY HIGH</integer>	00357460 32.141.014	1
2	357470	MNEMONIC FIXED/EXTERNAL/VARIABLE/LINKED WFL COMPILERS	00357470 32.141.014	2
3	357480	DEPENDENTSPECS 166 <boolean> PRIORITY HIGH</boolean>	00357480 32.141.014	В
4	357490	MNEMONIC TRUE/FALSE/ <nul true=""> WFL COMPILERS</nul>	00357490 32.141.014	4
5	357500	SCREENSIZE 167 <integer> COMPILERS READONLY PARAMETERS 1REQ</integer>	00357500 32.141.014	5
5 6	357510	CURRENTRECORD 168 <integer> COMPILERS READONLY</integer>	00357510 32.143.015	5
4				<u>^</u> _
1 1	357520	,SUBFILEERROR 169 <integer> MNEMONIC NOERROR/DISCONNECTED/DATALOST/</integer>	00357520 32.143.015	- 1/
8	357530	NOBUFFER/NOFILEFOUND/UNREACHABLEHOST/UNSUPPORTEDFUNCTION	00357530 33.111.016	18
9	357535	COMPILERS READONLY PARAMETERS 10PT	00357535 33.111.016	9
10	357540	FILESTATE 170 <integer> MNEMONIC CLOSED/AWAITINGHOST/OFFERED/OPENED/</integer>	00357540 32.143.015	11
111	357550	SHUTTINGDOWN/BLOCKED/CLOSEPENDING/DEACTIVATIONPENDING/DEACTIVATED/	00357550 32.143.015	11
12	357560	DENIED/POSTPONED/DENIEDILLEGALUSE	00357560 32.143.015	1
13	357570	COMPILERS READONLY PARAMETERS 10PT	00357570 32.143.015	
14	357580	, NEXTRECORD 171 <integer> COMPILERS READONLY</integer>		- 1.
1:4			00357580 33.027.005	[]
15	357590	,LABELKIND 172 <integer> COMPILERS READONLY</integer>	00357590 33.027.005	1
16	357600	STATIONSALLOWED 173 <integer> COMPILERS READONLY</integer>	00357600 33.027.005	11
17	357610	COPYINERROR 174 <integer> COMPILERS READONLY</integer>	00357610 33.027.005	11
18	357615	,USETIME 175 <integer> COMPILERS READONLY</integer>	00357615 33.030.007	11:
19	357620	USERINFO 176 <real> COMPILERS</real>	00357620 33.030.007	
bd	357625	ALTERDATE 177 <integer> COMPILERS READONLY</integer>	00357625 33.030.007	h.
20 21	357630	ALTERTIME 178 <integer> COMPILERS READONLY</integer>	00357630 33.030.007	۲,
K.				<u>K</u>
44	357635	CREATIONTIME 179 <integer> COMPILERS READONLY</integer>	00357635 33.030.007	12:
22 23 24	357640	BLANK 180 <integer> MNEMONIC NULL/ZERO COMPILERS</integer>	00357640 34.005.002	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
24	357645	,PRINTERKIND 181 <integer> MNEMONIC DONTCARE/IMAGEPRINTER/LINEPRINTER</integer>	00357645 35.015.006	2
25	357650	WFL COMPILERS	00357650 35.015.006	2
26	357655	,PRINTERCONTROL 182 <name> WFL COMPILERS</name>	00357655 35.015.006	b.
27	357660	,SIZEVISIBLE 183 <boolean> MNEMONIC TRUE/FALSE/<nul true=""></nul></boolean>	00357660 35.035.009	5
25 26 27 28 29 30	357665	WFL COMPILERS	00357665 35.035.009	
20				12
29	357670	AFTER 184 <string> WFL COMPILERS</string>	00357670 35.076.021	[2]
	357675	,ALIGNFILE 185 <name> WFL COMPILERS</name>	00357675 35.076.021	3
31	357680	ALIGNMENT 186 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>	00357680 35.076.021	3
32	357685	BANNER 187 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>	00357685 35.076.021	3:
32 33	357690	,PRINTCHARGE 188 <simplename> WFL COMPILERS</simplename>	00357690 35.151.026	3
34	357695	,CHARSET 189 <simplename> WFL COMPILERS</simplename>	00357695 35.076.021	
35	357700	,CHECKPOINT 190 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>		6
34 35 36				F.
20	357705	,DESTINATION 191 <string> WFL COMPILERS</string>	00357705 35.076.021	
37	357710	,NOTE 192 <string> WFL COMPILERS</string>	00357710 35.076.021	3
38	357715	PRINTCOPIES 193 <integer> WFL COMPILERS</integer>	00357715 35.076.021	В
39	357720	,PRINTDISPOSITION_194 <integer></integer>	00357720 35.076.021	3
40	. 357725	MNEMONIC DONTPRINT/DIRECT/CLOSE/EOT/EOJ	00357725 35.076.021	4
41	357730	WFL COMPILERS	00357730 35.076.021	4
42	357735	,SAVEBACKUPFILE 195 <boolean> MNEMONIC TRUE/FALSE/<nul true=""></nul></boolean>	00357735 35.113.025	L.
43	357736	WFL COMPILERS	00357736 35.113.025	——[]
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44	357740	TRANSFORM 196 <string> WFL COMPILERS</string>	00357740 35.076.021	14
45	357745	,USERBACKUPNAME 197 <boolean> MNEMONIC TRUE/FALSE/<nul true=""></nul></boolean>	00357745 35.076.021	4
46 47	357750	WFL COMPILERS	00357750 35.076.021	4
47	357755	DUMMYFILE 198 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>	00357755 35.076.021	4
48	357760	TRIMBLANKS 199 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>	00357760 35.077.022	4
49	357765	,OLDYOURUSERCODE 200 <boolean> MNEMONIC TRUE/FALSE/<nul true=""></nul></boolean>	00357765 35.093.024	
	357770	WFL COMPILERS		
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11 9	SYMBOL/ATTA	BLEGEN (03/20/85)	11:59 AM TUESDAY, APRIL 9, 1985	1
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		TANK ATTOMORTS OF STANK	222222	3
4	358000	TASK ATTRIBUTE SECTION.	00358000	4
5	358500	NAME O CHAMES WELL COMPILEDS	00358500 32.123.013	þ
}	359000 361000	NAME O <name> WFL COMPILERS, MIXNUMBER 1 <integer> WFL COMPILERS READONLY,</integer></name>	00359000 29.012.008 00361000 33.002.001	— F
اهٰ	362000	STACKNO = MIXNIMRED	00362000 33 002 001	l'a
8	363000	CORE 2 <core> PRIORITY HIGH WFL COMPILERS,</core>	00363000 29.012.008	8
liď	365000	COREESTIMATE = CORE,	00365000	-J ₁₀
111	366000	PRIORITY 3 <integer> PRIORITY HIGH WFL COMPILERS,</integer>	00366000 29.012.008	
12	368000	DECLAREDPRIORITY = PRIORITY,	00368000	12
lıзГ	369000	MAXPROCTIME 4 <integer> PRIORITY HIGH WFL</integer>	00369000 29.012.008	13
14 15	370000	COMPILERS ,	00370000 29.012.008	14
15	371000	MAXIOTIME 5 <integer> WFL COMPILERS,</integer>	00371000 29.012.010	15
16	374000	IOTIME = MAXIOTIME,	00374000 29.012.010	16
17	375000	TARGET 6 <integer> WFL COMPILERS,</integer>	00375000 29.012.008	117
18	377000	TARGETTIME = TARGET,	00377000	-118
19 20	378000	STACK 7 <integer> WFL COMPILERS,</integer>	00378000 29.012.008	119
21_	380000 381000	STACKSIZE = STACK, USEDCODE R <simdlenames compileds<="" td=""><td>00380000 00381000 29.012.008</td><td>11 12 13 14 15 15 16 16 17 17 18 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18</td></simdlenames>	00380000 00381000 29.012.008	11 12 13 14 15 15 16 16 17 17 18 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18
5 <i>;</i> }	383000	USERCODE 8 <simplename> COMPILERS, TASKVALUE 9 <real> PRIORITY HIGH WFL COMPILERS, VALUE = TASKVALUE.</real></simplename>	00381000 29.012.008	—ხ,
22 23 24	385000	VALUE = TASKVALUE,	00385000 29.012.008	5
54	386000	HISTORY 10 <real> WFL COMPILERS READONLY,</real>	00386000 29.012.008	52
25	391000	TYPE 11 <real> MNEMONIC PROCESS/CALL/RUN/JOBSTACK WFL COMPILERS</real>	00391000	
26	392000	READONLY.	00392000	26
25 26 27	393000	STATUS 12 <integer> MNEMONIC</integer>	00393000 31.218.031	2
28 29 30	393500	NEVERUSED	00393500 31.218.031	28
29	393600	/SCHEDULED	00393600 31.218.031	29
30	393700	/ACTIVE	00393700 31.218.031	30
31	393800	/SUSPENDED	00393800 31.218.031	3
32	393900	/FROZEN	00393900 31.218.031	32
33	394000	/GOINGAWAY	00394000 31.218.031	B3
34	394100	/UNINITIATED	00394100 31.218.031	34
35	394200	/TERMINATED	00394200 31.218.031	35
34 35 36 37 38 39 40	394300	/BADINITIATE	00394300 31.218.031	36
37	394400	WFL COMPILERS,	00394400 31.218.031	3
38	395000	ACCUMPROCTIME 13 <integer> WFL COMPILERS READONLY,</integer>	00395000 29.012.010	38
17	395100 396000	PROCESSTIME = ACCUMPROCTIME, ACCUMIOTIME 14 <integer> WFL COMPILERS READONLY,</integer>	00395100 29.012.010 00396000 30.036.010	—B
4	396100	PROCESSIOTIME = ACCUMIOTIME.	00396100 29.012.010	4
41 42	397000	ELAPSEDTIME - ACCOMIDITIME, ELAPSEDTIME 15 <integer> WFL COMPILERS READONLY,</integer>	00397000 29.012.010	42
43	398000	EXCEPTIONTASK 16 <task> COMPILERS.</task>	00398000	— 4:
43 44 45	399000	LOCKED 17 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> COMPILERS.</nul></boolean>	00399000	43 44 45 46 47 48
45	400000	STOPPOINT 18 <real> WFL COMPILERS READONLY,</real>	00400000	45
46	401000	PARTNER 19 <task> COMPILERS,</task>	00401000	- 46
47	402000	STATION 20 <real> WFL COMPILERS,</real>	00402000	4
48_	403000	INITIATOR = STATION,	00403000	48
49	404000	EXCEPTIONEVENT 21 <event> COMPILERS,</event>	00404000	— 49
50	405000	OPTION 22 <option> MNEMONIC */LONG/FAULT DP/DSED DP/CCLIST/BACKUP/</option>		
<u>51</u>	405100	BDBASE/SIBS DP/LIBRARIES DP/PRIVATELIBRARIES DP/	00405100 32.123.012	56 55 55 55 55 56 56 56
<u></u> 52	405200	DEBUG/	00405200 31.192.026	5
23	406000	BASE DP/ARRAYS DP/CODE DP/FILES DP/NOSUMMARY/HARDDUMP/DBS DP/	00406000 31.191.022	þ.
50 51 52 53 55 55 57 59 60	406500	AUTORM/IPCOVERRIDE	00406500 31.191.022	pʻ
ဥ်ခ	407000	WFL COMPILERS,	00407000	P:
20	408000 409000	OPTIONS = OPTION, VALIDITYBITS 23 <boolean> MNEMONIC * COMPILERS</boolean>	00408000 00409000 29.023.007	5,
E#	410000	READONLY,	00409000 29.023.007 00410000	—ૄિ,
50	411000	FILECARDS 24 <attributelist> WFL COMPILERS .</attributelist>	00410000 32.046.005	5
60	412000	FILE = FILECARDS,	00412000 29.012.008	6
~~	712000	ite iteonor;	00412000 25.012.000	اح.

1	413000	ERROR 25 <real> MNEMONIC * WFL COMPILERS,</real>	00413000 2	29.023.007
2	414000	TASKATTERR = ERROR,	00414000	½
3_	414500	PARTNEREXISTS 27 <boolean> COMPILERS READONLY,</boolean>	00414500 3	34.062.015
4	415000	RESTART 28 <integer> WFL COMPILERS,</integer>	00415000	4
5	416000	BDNAME 29 <simplename> WFL COMPILERS.</simplename>	00416000 0	nos 5
5 6_	417000	BACKUPPREFIX = BDNAME,	00417000	6
1 7 –	418000	STACKHISTORY 30 <string> COMPILERS READONLY,</string>	00418000	7
7 8 9	419000	SUBSPACES 31 <integer> WFL COMPILERS,</integer>	00419000	i. R
1 3	420000	TASKFILE 32 <taskfile> COMPILERS,</taskfile>	00420000	<u></u>
10	421000	DECKGROUPNO 33 <integer> COMPILERS READONLY,</integer>	00421000	10
1:3	422000		00421000	1
11 12		CLASS 34 <integer> WFL COMPILERS READONLY,</integer>		
1:4—	423000	QUEUE = CLASS,	00423000	12.017.000
13	424000	COMPILETYPE 35 <integer> MNEMONIC COMPILEANDGO/SYNTAX/LIBRARYANDGO/</integer>	00424000 2	29.017.003
114	425000	LIBRARY COMPILERS,	00425000 2	29.035.013
13 14 15 16 17 18	426000	TASK 37 <task> WFL,</task>	00426000	1:
16	427000	ORGUNIT 38 <integer> COMPILERS READONLY,</integer>	00427000	[11]
17	428000	MAXCARDS 39 <integer> WFL COMPILERS,</integer>	00428000 2	29.012.008
18	429000	PUNCHLIMIT = MAXCARDS,	00429000 2	29.012.008
19	430000	MAXLINES 40 <integer> WFL COMPILERS,</integer>	00430000 2	29.012.008
20	431000	PRINTLIMIT = MAXLINES,	00431000 2	29.012.008 2 9
21	432000	JOBNUMBER 41 <integer> COMPILERS,</integer>	00432000	2
22	433000	CHARGE 42 <simplename> WFL COMPILERS,</simplename>	00433000 2	29.035.013
19 12212234 2225627 223333333333333333333333333333333333	434000	CHARGECODE = CHARGE,	00434000	
24	435000	DESTNAME 44 <destination> WFL COMPILERS,</destination>	00435000	2 .
25	436000	BACKUPDESTINATION = DESTNAME,	00436000	2'
26	437000	SOURCESTATION 45 <real> COMPILERS,</real>	00437000	20
b 7	438000	DESTSTATION 46 <real> COMPILERS,</real>	00438000	<u>و</u>
28	439000	SOURCEKIND 47 <real> COMPILERS READONLY,</real>	00439000	2:
29	440000	RESTARTED 48 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> COMPILERS,</nul></boolean>	00440000 3	31 056 007
80	441000	MAXWAIT 49 <real> WFL COMPILERS,</real>	00441000 2	29 017 004
<u> </u>	442000	STACKLIMIT 50 <integer> WFL COMPILERS,</integer>	00442000 2	29 035 013
63	443000	FETCH 52 <fetch> WFL.</fetch>	00443000	23.003.010
23	444000	RESOURCE 53 <resource> WFL,</resource>	00444000	- F
Б%	445000	FAMILY 55 <family> WFL COMPILERS,</family>	00445000 2	29 017 004
	446000	WAITLIMIT 56 <real> WFL COMPILERS,</real>	00446000	29.017.004
Ľ,			00447000) 2
[일_	447000	ELAPSEDLIMIT 57 <real> WFL COMPILERS, TASKLIMIT 58 <real> WFL COMPILERS, %QUEUE ATTRIBUTE ONLY</real></real>		20.050.000
2/1	448000		00448000 2	29.059.020
ညီရ	449000	DISKLIMIT 59 <integer> WFL COMPILERS,</integer>	00449000 2	29.059.020
<u> </u>	449100	TANKING 60 <integer> MNEMONIC UNSPECIFIED/NONE/SYNC/ASYNC</integer>	00449100 2	
40	449120	COMPILERS WFL,	00449120 3	31.041.003
41	449130	ACCESSCODE 61 <simplename> WFL COMPILERS,</simplename>	00449130 3	31.215.029
42_	449140	SUBSYSTEM 62 <identifier> WFL COMPILERS,</identifier>	00449140 3	31.215.029
43	449150	BACKUPFAMILY 63 <identifier> WFL COMPILERS,</identifier>	00449150 3	31. 158.016
44 45	449525	HOSTNAME 64 <identifier> WFL COMPILERS,</identifier>	00449525 3	31.215.029
45 <u></u>	449600	HISTORYTYPE 66 <integer> MNEMONIC</integer>	00449600	4
46	449650	NORMALV/	00449650	31.218.031
46 47 48 49	449655	DUMPINGV/	00449655 3	31.218.031 4
48	449660	QTEDV/	00449660 3	31.218.031 4
49 □	449665	STEDV/	00449665	31.218.031 4
	449670	DSEDV/	00449670 3	
51	449680	NORMALEOTV/	00449680	31.218.031 5
52	449685	SYNTAXERRORV/	00449685 3	31.218.031 5
53	449690	UNKNOWNEOTV	00449690 3	31.218.031 5
54	449695	UNINITIATEDV		31.218.031
55	449700	WFL COMPILERS READONLY,		31.218.031
56	449750	HISTORYCAUSE 67 <integer> MNEMONIC</integer>	00449750	31.218.031 5 31.218.031 5 31.218.031 5 31.218.031 5 31.218.031 5 5 5 5
67	449800	OPERATORCAUSEV/PROGRAMCAUSEV/RESOURCECAUSEV/	00449800	5
<u></u>	449820	FAULTCAUSEV/SYSTEMCAUSEV/	00449820	
51 52 53 54 55 56 57 58 60	449850	DCERRCAUSEV/JOERRCAUSEV/	00449850	E E
2	449880	SOFTIOERRCAUSEV/NEWIOERRCAUSEV/	00449880	<u>ک</u>
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1 1	449900	UNIMPLEMENTEDCAUSEV/UNSPECIFIEDCAUSEV/	00449900	[1
4	449920	EBDMSERRCAUSEV/NETWORKCAUSEV	00449920	Þ
3	449950	WFL COMPILERS READONLY,	00449950	3
14	450010	HISTORYREASON 68 <integer> MNEMONIC</integer>	00450010	면
5	450020	RSVPV/	00450020	Þ
ᅵᅨ	450030	CLEARUNITV/	00450030	6
17	450040	JUSTDSEDV/	00450040	7
8	450050		00450050	18
9	450060	MISSINGCODEFILENAMEV/	00450060	9
10	450070	MISSINGCODEFILEV/	00450070	110
1 1	450080	INITACTIVETASKV/	00450080	1
12	450090	NOEXTERNALRUNV/	00450090	1:
13	450100	INVALIDACCESSCODEV/	00450100	1:
14	450110	DEATHINFAMILYV/	00450110	1.
15	450120	CRITICALBLOCKV/	00450120	1!
16	450130	BADGOTOV/	00450130	10
17	450140	NOTEXECUTABLEV/	00450140	11
18	450150	UNMATCHEDPARAMSV/	00450150	\1:
	450160	INVCOMPILERVV/	00450160	1: 1. 1: 1: 1: 1: 2: 2:
19 20 21 22 23 24 25 26 27	450170	SECURITYERRORV/	00450170	2 0
21	450180	LIBMAINTV/	00450180	2
22	450190	BADRESIZEDEALLOCV/	00450190	2: 2: 2:
23	450200	MISSINGINTRINSICV/	00450200	b :
24	450210	INCOMPATIBLELEVELV/	00450210	2.
55	450220	INFANTICIDEV/	00450220	2
56	450230	NOTBOUNDY/	00450230	2' 2' 2'
27	450240	ILLEGALOWNARRAYV/	00450240	Б·
58	450250	DIMSIZERRORV/	00450250	
28 29 30	450260	UPLEVELATTACHV/	00450260	6
30	450270	ILLEGALSWAPV/	00450270	Ę,
21	450280	SWAPDOESNTALLOWV/	00450280	
33	450290	BADTASKATTRIBUTEV/	00450290	3
31 32 33	450300	MISSINGCARDDECKV/	00450300	, S
12 J	450310	BADRESTARTV/	00450310	
2	450310	BADEVENTUSAGEV/	00450320	2
34 35 36	450330	BADGIVELOCKV/	00450320	, , , , , , , , , , , , , , , , , , ,
2	450340	BADGETLOCKV/	00450340	
37 38 39 40	450350	COMPILERSONLYV/	00450350	<u>ک</u>
20	450360	TASKLIMITEXCEEDEDV/	00450360	S.
127		AXBADARRAYV/	00450370	
[3	450370 450380	RUNTIMEWFLV/	00450370	Ľ,
41			00450380	G.
1,4	450390	COMPILERERRORV/ LIBMISSINGNAMEV/	00450400	
43	450400			2: 2: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:
44 45	450410	LIBTYPEMISMATCHV/	00450410	<u>[</u>
[#]	450420	LIBDIRECTORYNOTFOUNDV/	00450420	
46	450430	CYCLICPROVISIONV/	00450430	4 4 4 5 5 5 5 5 5 5 5 5 6
	450440	PREVIOUSLYFROZENLIBV/	00450440	ľ.
48	450450	LIBIMPLEMENTATIONERRORV/	00450450	
49	450460	BADPTRLIBV/	00450460	4
50 51	450470	NONUNIQLIBV/	00450470	p
P1	450480	NOINITPARAMV/	00450480	P
2	450490	SWAPJOBCANTBELIBV/	00450490	þ
р3	450500	GLOBALLIBSONLYV/	00450500	<u> </u>
54	450510	INVALIDLIBREFV/	00450510	
55	450520	LIBFEATURENOTIMPLEMENTEDV/	00450520	Þ
52 53 55 55 57 59 60	450530	BADCOMPILERINDEXV/	00450530	5
57	450540	LIBNOTPROCESSEDORRUNV/	00450540	5
58	450550	LIBMUSTBESEPARATESTACKV/	00450550	5
59	450560		00450560	5
60	450570	PROCESSEXCEEDEDV/	00450570	6

1	450580	IOEXCEEDEDV/	00450580	[1
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12	450680	STRINGPOOLEXCEEDEDV/	00450690	1:
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1 1	450700	DIVIDED/JEDOV/	00450700	1:
14	450710	DIVIDEBYZEROV/	00450710	11:
15	450720	EXPOVERFLOWV/	00450720	!
16	450730	EXPUNDERFLOWV/	00450730	116
17	450740	INVALIDINDEXV/	00450740	[1]
18	450750	INTEGEROVERFLOWV/	00450750	118
19	450760	INACTIVEQV/	00450760	19
20	450770	MEMORYPROTECTV/	00450770	120
21	450780	INVALIDOPV/	00450780	14 19 11 11 11 11 12 12 12 12 12 12 12 12 12
22	450790	LOOPV/	00450790	2:
22 23 24	450800	MEMORYPARITYV/	00450800	2:
24	450810	SCANPARITYV/	00450810	2
25	450820	INVALIDADDRESSV/	00450820	2:
25 26 27	450830	STACKOVERFLOWV/	00450830	20
27	450840	STRINGPROTECTV/	00450840	2.
28	450850	PROGRAMMEDOPV/	00450850	— <u>[2</u> 5
28 29 30	450860	BOTTOMOFSTACKY/	00450860	29
30	450870	SEQUENCEERRORY/	00450870	30
31	450880	INVALIDPCWV/	00450880	3
32	450890	STACKUNDERFLOWV/	00450890	3:
32 33	450900	ZAPPEDV/	00450900	3:
67	450910	DISKPARITYV/	00450910	
35	450936	DISK ACTIVY	00450936	Ę,
34 35 36	450938	NOMEMV/	00450938	3
37	450940	PARITYONPBITV/	00450940	—გ.
20	450942	ARRAYTOOLARGEV/	00450942	<u>۾</u>
38 39	450942	ARRATIOULARGEV	00450944	5
CJ-	450944	WSSIZEEXCEEDEDV/	00450944	
40		M2217CEV/CECTEDA/		
41	450948	DECDONGED FOULDED V	00450948	Ľ.
42	450950	RESPONSEREQUIREDV/	00450950	4: 4: 4: 4: 4: 4: 4: 4: 4:
43 44 45	450952	DVALANT COURSE DE VIVI	00450952	14
144	450954	DYNAMICOWNARRAYV/	00450954	14.
45	450956		00450956	^4.
46 47	450958	NOHOSTV/	00450958	14.5
	450960	HOSTNOTREACHABLEV/	00450960	4
48	450962	HOSTHALTLOADEDV/	00450962 35.181.029	4
49	450964	TASKPROTOCOLERRORV/	00450964 35.181.029	14
5 0	450966		00450966 35.181.029	5
51	450968	DISCONNECTEDY/	00450968 35.181.029	5
52	450970	SUSPENDEDV	00450970 35.181.029	
52 53	450972	WFL COMPILERS READONLY,	00450972 35.181.029	5 5 5 5 5 5
54	450980	HSINFO 69 <string> WFL COMPILERS READONLY,</string>	00450980 31.186.025	5
55	450982	HSPARAMSIZE 70 <integer> WFL COMPILERS READONLY, % TEMP FOR 31&32&33</integer>	00450982 33.105.015	5
56	450984	HSPARAMARRAY 71 <string> WFL COMPILERS READONLY. % TEMP FOR 31&32&33</string>	00450984 33.105.015	5
54 55 56 57	450985	ITINERARY 72 <string> COMPILERS READONLY,</string>	00450985 32.048.003	5
Fat	450986	DATABASE 73 <attributelist> WFL.</attributelist>	00450986 32.046.005	— <u></u> 5
58 59 60	450987	LIBRARY 74 <attributelist> WFL,</attributelist>	00450987 32.049.006	5 5
67	450988	VISIBILITY 75 <integer> MNEMONIC UNSPECIFIED/</integer>	00450988 32.049.006	Ē
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1	450989	MINIMAL/	00450989	32.049.006	1.
ادا	450999	SUBSYSTEM/	00450989		Ľ
3	450991	GLOBAL WFL COMPILERS	00450990		Ę,
_}	450995	TASKPARAMETERS 76 <string> COMPILERS READONLY %PRELIMINARY FOR 32 IMP</string>		32.123.013	\ ³
7	-			32.123.013	Ľ
٦	451050	,STACKNUMBER 77 <integer> COMPILERS READONLY</integer>		33.002.001	þ
<u> </u>	451100	,TIMESTARTED 78 <real> COMPILERS READONLY</real>		33.002.001	6
1	451102	STARTTIME 79 <string> WFL READONLY</string>		33.043.008	7
8	451104	STARTTIMETIMESTAMP 80 <real> WFL READONLY</real>		33.043.008	18
9_	451106	,JOBSUMMARY 81 <integer> MNEMONIC DEFAULT/</integer>		33.043.009	9
10	451108	CONDITIONAL/		33.043.009	110
11	451110	SUPPRESSED/		33.043.009	1
12_	451112	UNCONDITIONAL WFL COMPILERS	00451112	33.043.009	1:
13	451115	CHECKPOINTABLE 82 <boolean> MNEMONIC TRUE/FALSE WFL COMPILERS READONLY</boolean>	00451115	33.045.011	1:
14	451120	BRCLASS 83 <integer> MNEMONIC NOBR/ONCEONLY/MULTIPLE WFL COMPILERS</integer>	00451120	33.045.011	114
15	451122	,SW1 84 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>	00451122	33.104.014	119
16	451124	,SW2 85 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>	00451124	33.104.014	10
17	451126	SW3 86 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>		33.104.014	[4]
18	451128	,SW4 87 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>		33.104.014	li,
19	451130	, SW5 88 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>		33.104.014	
20	451132	,SW6 89 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>		33.104.014	h.
21	451134	,SW7 90 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>		33.104.014	ቬ
22	451136	.SW8 91 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>		33.104.014	
22 23 24	451140	,INHERITMCSSTATUS 92 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL</nul></boolean>		33.104.014	<u>ل</u> ا ا
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<u>-</u>	451145	ACTUAL DESTNAME OR SETTINGS WELL COMPILEDS		33.105.015	11 11: 11: 11: 11: 11: 12: 22: 22: 22: 2
23	451148	, ACTUALDESTNAME 93 <string> WFL COMPILERS</string>		35.190.031	123
26	451150	,TADS 94 <boolean> MNEMONIC TRUE/FALSE/<nul true=""> WFL COMPILERS</nul></boolean>		35.190.031	29
<u> </u>	451152	,LANGUAGE 95 <simplename> WFL COMPILERS</simplename>		35.190.031	2
28	451154	,CODEVISIBILITY 96 <integer> MNEMONIC UNSPECIFIED/</integer>		35.190.031	128
29	451156	MINIMAL/		35.190.031	þ
30	451158	SUBSYSTEM/		35.190.031	3(
31	451160	GLOBAL WFL COMPILERS		35.190.031	3
32	451162	,JOBSUMMARYTITLE 97 <name> WFL COMPILERS</name>	00451162	35.190.031	3:
33	451164	,NOJOBSUMMARYIO 98 <boolean> MNEMONIC TRUE/FALSE/<nul true=""></nul></boolean>	00451164	35.190.031	s:
34	451166	WFL COMPILERS	00451166	35.190.031	34
35 36	451168	PRINTDEFAULTS 99 <string> WFL COMPILERS</string>	00451163	35.190.031	a:
36	451170	,ACCEPTEVENT 100 <event> COMPILERS</event>	00451170	35.190.031	30
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4 15371200	%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	% 15371200 31.062.240 4
5 15371220 6 15371240	% BUIH PRUCESS LASKS AND PRUGRAM SEGMENT DICTIONARIES ARE IMPLEMENTED	153/1220 31.1/0.6/4
6 15371240 7 15371260	6 AS STACKS - ARRATS IN THE STACKVECTUR. THE FIXED BASE OF THE STACK	15371240 31.170.674
8 15371280	% CONVENTION AND SOME DATA THAT ARE NEFDED ONLY WHEN THE STACK IS	15371280 31.170.674
9 15371300	% PRESENT AND AVAILABLE. THE REST OF THE CONTROL INFORMATION IS	15371300 31.170.674
10 15371320	% CONTAINS SOME CONTROL INFORMATION REQUIRED BY HARDWARE OR SOFTWARE % CONVENTION, AND SOME DATA THAT ARE NEEDED ONLY WHEN THE STACK IS % PRESENT AND AVAILABLE. THE REST OF THE CONTROL INFORMATION IS % KEPT IN SOME ARRAYS INDEXED IN PARALLEL WITH THE STACKVECTOR: % STACKINFO IS A SCALAR ARRAY CONTAINING DATA THAT % CHARACTERIZE EACH STACK NUMBER AS TASK, SEGDICT, ETC. % STACKINFO FIELDS ARE ACCESSIBLE AT ALL TIMES FOR EVERY % STACK INDEX IN THE ALLOWABLE RANGE, AND IS ARRANGED FOR % MASKSEARCHING.	15371320 34.005.122
11 15371340	% STACKINFO IS A SCALAR ARRAY CONTAINING DATA THAT	15371340 34.009.256
12 15371360	% CHARACTERIZE EACH STACK NUMBER AS TASK, SEGDICT, ETC.	15371360 34.005.122 1
13 15371370	% STACKINFO FIELDS ARE ACCESSIBLE AT ALL TIMES FOR EVERY	15371370 34.009.256 . 1
14 15371380	% STACK INDEX IN THE ALLOWABLE RANGE, AND IS ARRANGED FOR	15371380 34.009.256
15 15371390	% MASKSEARCHING.	15371390 34.005.122
16 15371420	% STACKSTATUS IS A SCALAR ARRAY CUNTAINING PRIORITY AND PROCESSING	153/1420 31.1/0.6/4
17 15371440	% STATE.	15371440 34.005.142
18 15371480 19 15371500	6 SPIDVEGIOR IS A DUPE VEGIOR TO STRUCTURES CONTAINING ALL THE REST	15371480 31.170.674
20 15371500	% STATE. % SPIBVECTOR IS A DOPE VECTOR TO STRUCTURES CONTAINING ALL THE REST % OF THE CONTROL INFORMATION FOR A TASK OR SEGDICT. EACH SUCH STRUCTUR % IS CALLED A "PROGRAM INFORMATION BLOCK" (PIB) AND IS BASICALLY A % CONTAINER FOR ALL SORTS OF DATA REQUIRED BY MANY DIFFERENT MODULES.	RE 15371500 31.170.674 [1
21 15371540	% CONTAINER FOR ALL SORTS OF DATA REQUIRED BY MANY DIFFERENT MODILIES	15371520 31.170.674 2 15371540 31.170.674 2
22 15371560		
23 15371580	% THE "TASK" VARIABLE DECLARED IN USER LANGUAGES IS IMPLEMENTED AS A % PIB. ALL PIBS BELONG (IN THE MEMORY-MANAGEMENT SENSE) TO THE MCP % AND RESIDE IN GLOBAL MEMORY, NO MATTER WHERE DECLARED. THOSE PIBS % WHICH ARE ACTIVE HAVE DESCRIPTORS IN THE SYSTEM PIB VECTOR AND ARE % ADDRESSABLE AS SPIB[<stack number="">,*]. (TASKS BEING RUN VIA HOST</stack>	15371560 31.170.674 2 15371580 31.170.674 2 15371600 31.170.674 2 15371620 31.170.674 2 15371640 31.170.674 2 15371660 31.170.674 2
24 15371600	% PIB. ALL PIBS BELONG (IN THE MEMORY-MANAGEMENT SENSE) TO THE MCP	15371600 31.170.674 2
25 15371620	% AND RESIDE IN GLOBAL MEMORY, NO MATTER WHERE DECLARED. THOSE PIBS	15371620 31.170.674 2
26 15371640	% WHICH ARE ACTIVE HAVE DESCRIPTORS IN THE SYSTEM PIB VECTOR AND ARE	15371640 31.170.674 2
27 15371660	% ADDRESSABLE AS SPIB[<stack number="">,*]. (TASKS BEING RUN VIA HOST</stack>	15371660 31.170.674 2
28 15371680	% SERVICES AT AN EXTERNAL HOST HAVE PIBS WITH DESCRIPTORS IN THE	15371680 31.170.674 [2
29 15371700		
30 15371720	%	15371720 31.170.674 3
31 15371740 32 15371760	% EXTSPIBUECTOR.) % CONSTANT % PIB STRUCTURE: COMPLETE PIBS ARE USED FOR PROCESS STACKS % AND FOR DBS AND THE MCP STACK. SHORT PIBS ARE USED % FOR ORDINARY SEGDICTS AND INTRINSICS. % ORDERED ALPHABETICALLY EXCEPT WHEN OTHERWISE CONSTRAINED. ***********************************	15371740 31.170.674 3 15371760 31.170.674 3 15371800 31.062.240 3
33 15371760	% AND FOR DES AND THE MEP STACK. SHORT PIDS ARE USED 9 FOR ORDINARY SECRICIS AND INTRINSICS	15371760 31.170.674 3 15371800 31.062.240 3
34 15372000	% ORDERED ALPHARETICALLY EXCEPT WHEN OTHERWISE CONSTRAINED	15371800 31.062.240 3
35 15372200	%%%%%%%% ONLY IN PROCESS PIBS:	15372000 31.062.240 3 15372200 31.170.674 3 15372400 31.170.674 3
36 15372400	PIBMSCW =O. % D1 MSCW FOR SOPHIA ROUTINES	15372400 31.170.674 3
37 15373200	%%%%%%% ONLY IN SEGDICT PIBS:	15373200 31.170.674 3
38 15373400	CODEHEADERINDEX =O, % INDEX OF CODE-FILE HEADER	15373200 31.170.674 3 15373400 31.166.240 3 15373800 31.170.674 3
39 15373800	%%%%%%% IN ALL PIBS:	15373800 31.170.674 · 3
40 15374000	ZOTBOT1, % CLEARED BY DOCTOR BEFORE BO	OT 15374000 31.162.599 4
41 15374100	ACTUALBOXES = ZOTBOT1, % BOXMASK FOR LOGGING - ACTUALLY USED BOXE	ES 15374100 34.004.078 4
42 15374200	CODELINKS, % SEGDICT LINKAGES: CF SEGDICTF, ETC	15374200 312261018 4
43 15374400	ZOTBOT1, % CLEARED BY DOCTOR BEFORE BO ACTUALBOXES = ZOTBOT1, % BOXMASK FOR LOGGING - ACTUALLY USED BOXE CODELINKS, % SEGDICT LINKAGES: CF SEGDICTF, ETC COMPILERINFO, % FROM SEGO: CF LANGUAGETYPEF, ETC COREINTEGRAL, % WORKING-SET ACCOUNTING COREINUSE, % TOTAL WORDS OF CORE IN USE	15374400 31.162.599 4
44 15374600 45 15374800	CODE INVISE WURKING-SE! ACCOUNTING V TOTAL WORDS OF CODE IN USE	15374600 31.162.599 4 15374800 31.162.599 4
45 15374800 46 15375000	CORETINUSE, 6 TOTAL WUKUS OF CORE IN USE CORETNICES AVED 9 WINDS OF CORE IN USE THAT ARE MADDED SAN	15374800 31.162.599 4 /E 15375000 31.162.599 4
47 15375200	COREINUSESAVED, % WORDS OF CORE IN USE THAT ARE MARKED SAV FORCEDOLAYTIME, % OVERLAY ACCOUNTING	VE 15375000 31.162.599 4 15375200 31.162.599 4 15375300 32.034.203 4 15375400 31.162.599 4
48 15375300	GRAPHHEADWORD, % HEADWORD FOR GRAPH ROUTINES OLAYCNTL, % OLAYFREQ=47:24 OLAYAMT=23:24	15375300 32.034.203 4
49 15375400	OLAYONTL, % OLAYFREQ=47:24 OLAYAMT=23:24	15375400 31.162.599 4
50 15375450	ORIGBOXES, % BOXMASK FOR LOGGING - ORIGINAL BOXES	15375450 34.004.078 5
51 15375500	SEARCHINFO, % INFO NEEDED TO SEARCH A STACK	15375500 32.056.510 5
52 15375600	SUBSPACEID, % NAME OF OWNER OF SUBSPACE	15375600 31.162.599 5
53 15375800	SWAPHOLD, % SWAPJOB COUNT OF I/O OR SONS ACTIVE	15375800 31.162.599
54 15376000	TIMESTARTED, % -CLOCK AT INITIATION; ELAPSED TIME AT EC	DT 15376000 31.162.599 5
55 15376200	ZOTBOTIL =TIMESTARTED,	15376200 31.166.240 5
56 15376500	RUNNINGCOUNT, % USERS OF SEGDICT/DBS (& SIBS FOR DM)	15376500 32.033.179 5
57 15376600	D1PIBLENGTH, %======= END OF SEGDICT PIB ========	== 15376600 31.170.674 5
58 15376800	%%%%%%%% REST OF PROCESS (& DBS & MCP) PIBS:	15376800 31.170.674 5
59 15377000	%%%%%%% SELF-VALIDATING ARRAY ITEMS:	15376800 31.170.674 5 15377000 31.062.240 5 JN 15377200 31.170.674 6
50 15377200	FIRSTINITARRAY =D1PIBLENGTH, % TRANSCRIBED FOR RL	JN 15377200 31.170.674 6

1	15377400	ACCESSCODE =FIRSTINITARRAY,	% ARRAY: STANDARDFORM NAME % ARRAY: STANDARDFORM NAME % DATABASE LABEL EQUATION BLOCK % TOP OF FROZEN DBS, ETC. (SEE LAYOUT) % STD. FORM STATION NAME OF DESTINATION % STD. FORM HOST NAME % INTERNALFORM FAMILY SPECIFICATIONS % DISPLAYFORM JOBSUMMARYTITLE % STANDARDFORM PREFIX FOR BD FILES % FILE PARAMETER BLOCK % SUBSYSTEM NAME (SUBSTANDARDFORM NAME) % STANDARDFORM TASK NAME % PROGRAM PARAMETER BLOCK % SUBSYSTEM NAME (SUBSTANDARDFORM NAME) % STANDARDFORM COMPILEE NAME % PACKNAME IN SUBSTANDARDFORM AY =BACKUPFAMILY, TEMS NOT REPORTABLE AFTER EOT:	15377400 31.166.240
2	15377600	CHARGECODE,	% ARRAY: STANDARDFORM NAME	15377600 31.162.599
3	15377650	DBEQTNBLK,	% DATABASE LABEL EQUATION BLOCK	15377650 32.052.429
14	15377700	DBSINFO,	% TOP OF FROZEN DBS, ETC. (SEE LAYOUT)	15377700 32.033.179
5	15377750	DESTNAME,	% STD. FORM STATION NAME OF DESTINATION	15377750 35.027.777 15377800 31.162.599
ଗ୍	15377800	HOSTNAME,	% STD. FORM HOST NAME	15377800 31.162.599
17	15378200	FAMILYSUB,	% INTERNALFORM FAMILY SPECIFICATIONS	15378200 31.162.599
8	15378500	JSTITLE,	% DISPLAYFORM JOBSUMMARYTITLE	15378500 351122543
9	15378600	MYBDNAME,	% STANDARDFORM PREFIX FOR BD FILES	15378200 31.162.599 15378500 351122543 15378600 31.162.599
110	15378800	MYFPB,	% FILE PARAMETER BLOCK	15378800 31.162.599
111	15379000	MYNAME,	% STANDARDFORM TASK NAME	15379000 35.011.319
12	15379400	MYPPB,	% PROGRAM PARAMETER BLOCK	15379400 31.162.599
13	15379600	SUBSYSTEMID,	% SUBSYSTEM NAME (SUBSTANDARDFORM NAME)	15379600 31.162.599
14	15379800	YOURNAME,	% STANDARDFORM COMPILEE NAME	15379800 31.162.599
15	15380000	BACKUPFAMILY,	% PACKNAME IN SUBSTANDARDFORM	15380000 31.162.599
16	15380200	LASTINITARR	AY =BACKUPFAMILY.	15380200 31.166.240
17	15380400	%%%%%%% I	TEMS NOT REPORTABLE AFTER EOT:	15380400 31.062.240
18	15380600	ZOTEOT.	% CLEARED BY TERMINATE AFTER EOT	15380600 31.162.599
19	15381000	BDINFO =ZOTEOT.	% BACKUP OUTPUT CONTROL: CF BDNUMF. ETC	15381000 35.023.641
20	15381200	EVENTCAR.	% DESCRIPTOR TO SIDECAR ARRAY FOR EVENTS	15381200 35.008.265
21	15381300	BEDWORD.	% INFO FOR EVENT LINKAGE (CF MULTI-WATT)	15381300 35.008.265
5	15381400	BLOCK.	% SIRW TO (SCW OF) CRITICAL BLOCK	15381400 31 162 599
53	15381600	CARDSPUNCHED	% DECREMENTED PUNCH-CARD OUTPUT LIMIT	15381600 31 162 599
24	15381640	ALARMTIMES	% MEASURES ERECUENCY OF ALADM INTERDUDES	15381640 35 032 873
64	15381660	ALAKIM IMES,	% (TWO 24 RIT FIFING TIMES IN SECONDS)	15381660 35.032.873
26	15381700	ROTTIMESTAND	% (TWO 24 BIT FIELDS, FIMES IN SECONDS)	15361000 33.032.873
27	15382000	CDINEO	% CHECKDOINT DATA: CE CDCONNIE ETC	15381700 34.018.407
54	15382200	DISVUSED	% DECREMENTED HEED-DICK LIMIT	15302000 31.102.333
28 29	15382200	DISNUSED,	% DOW OD SIDW FOR TACK ENTRY DOINT	100022UU 31.102.000
30	15362000	ENTRIPULNI,	% FUENT CAUSED BY THE STATUS CHANCE	103020UU 31.102.099
1 1	15382800	EXCEPTIONEVENT	% EVENT CAUSED BY IPC STATUS CHANGE	15382800 31.102.599
31	15383000	EXTERNAL FAMILY, TARK	% (SECUND WURD)	15379000 35.011.319 15379400 31.162.599 15379800 31.162.599 15380000 31.162.599 15380400 31.162.599 15381000 35.023.641 15381200 35.008.265 15381300 35.008.265 15381400 31.162.599 15381600 31.162.599 15381600 31.162.599 15381600 31.162.599 15381600 31.162.599 15381600 31.162.599 15381600 31.162.599 15381600 31.162.599 15382000 31.162.599 15382000 31.162.599 15382000 31.162.599 15382000 31.162.599 15383000 31.162.599 15383000 31.162.599 15383000 31.162.599 15383000 31.162.599 15383400 31.162.599 15383400 31.162.599 15383400 31.162.599 15383400 31.162.599 15383400 31.162.599 15383400 31.162.599 15383400 31.162.599 15383800 31.162.599 15383800 31.162.599 15383800 31.162.599 15383800 31.162.599 15383800 31.162.599 15383800 31.162.599 15383800 31.162.599 15385800 31.162.599 15385000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15384000 31.162.599 15385000 31.162.599 15386000 31.162.599 15386000 31.162.599 15388600 31.162.599 15388600 31.162.599 15388600 31.162.599 15388600 31.162.599 15388600 31.162.599 15388600 31.162.599 15388600 31.162.599 15388600 31.162.599 15388600 31.162.599 15388600 31.162.599 15388600 31.162.599
32	15383200	EATERNALFAMILYLINK,	% EXTERNAL FAMILY LINKAGE VIA TAGS	10383200 31.103.003
33	15383400	FKEEPBIID,	% WORDS OVERLAYED WHILE RAICH JUB SUSPENDED	15383400 31.162.599
34	15383450	HEAUERACCESS,	% JUB AND CODE FILE HEADER INDICIES	15383450 35.013.388
	15383500	INSTRETRITORU,	% BITOU INSTRUCTION RETRY INFORMATION	15383500 31./X.026
36	15383600	INTERCEPTEDROW,	% RCW DISPLACED BY INTERLOOPER'S	15383600 31.162.599
37	15383800	INTERCESSION,	% INTERCEDE DRIVER	15383800 31.162.599
38	15383900	IIINERARY,	% HOSISERVICES ITINERARY INFORMATION	15383900 32.044.304
1 -	15383920	JOBDECKINFO,	% JOB DECK CONTROL ARRAY	15383920 32.054.458
	15383940	JOBINFO,	% ABOUT THE JOB OF THIS TASK: CF JOBCLASSF	15383940 32.054.458
	15384000	JOBMSGS,	% 2-D ARRAY: DISPLAY RSVP ACCEPT ETC.	15384000 31.162.599
42	15384200	PIBMEMLOC =JOBMSGS,	% TEMP MEMLOC WORD (SWAPPER TO INITIATE)	15384200 31.170.674
43	15384600	LIBRARYDIR,	% LIBRARY DIRECTORY DESCRIPTOR	15384600 31.163.577 15384700 32.147.947 15384800 31.162.599 15385000 31.162.599 15385200 31.166.240 15385500 35.005.118 15385600 31.162.599 15386400 31.162.599
44	15384700	LIBINITIATOR = LIBRARYDIR,	% LIB INITIATION INFO (LIBACCESS, ETC.)	15384700 32.147.947
	15384800	LINESPRINTED,	% DECREMENTED PRINTER OUTPUT LIMIT	15384800 31.162.599
46	15385000	OLAYFILEDESC,	% HEADER FOR OVERLAY FILE. SHARED WITH:	15385000 31.162.599
47	15385200	D1STACKINFO =OLAYFILEDESC,	% CODE-FILE DESC FOR D1STACK (BEFORE BOJ)	15385200 31.166.240
48	15385550	PORTLIB_PIB,	% NO OF PORTS DECLARED AND TOUCHED, ETC.	15385550 35.005.118
49	15385600	PROCESSFAMILYLINK,	% CF PARENTF, ETC	15385600 31.162.599
5d	15386400	REMPRINTMASK,	% WHICH MCS'S TO NOTIFY OF PRINTING AT EOU	15386400 31.162.599
51	15386600	REMPUNCHMASK,	% WHICH MCS'S TO NOTIFY OF PUNCHING AT EOU	15386600 31.162.599
52	15386800	REPLY,	% RSVP COMMUNICATION: CF REPVALF, ETC	15386800 31.162.599
53	15387000	REPLYEVENTX,	% RSVP EVENT	15387000 31.222.003
54	15387200	· · · · · · · · · · · · · · · · · · ·	% (SECOND WORD)	15387200 31.222.003
55	15387600		% WFL-SUPPLIED JOBSTACK ROLLOUT DATA	15387600 31.162.599
56	15388000	· ·	% SOFTWARE INTERRUPT QUEUE HEADWORD	15388000 31.162.599
57	15388400		% SIDE CAR FOR SWAPPER STUFF	15388400 31.162.599
58	15388500	······································	% BOXES TASK IS ALLOWED IN	15388500 34.004.078
59	15388600		% MISCELLANEOUS: CF INUSEBYSYSTEMF, ETC	15388600 31.162.599
60 60	15388650	-	% MISCELLANEOUS: OF INOSEBTSTSTEMF, ETC % BEFORE INITIATE: ARRAY OF PARAMETERS	15388650 32.033.179
<u> </u>	13300030	I AUNT ANAMU,	M DEFORE INTITATE, ARRAY OF PARAMETERS	10000000 02.000.113

1	15388700		% AFTER INITIATE: NUMBER OF PARAMETERS	15388700 32.033.	179
2	15388800	PIBIOCB,	% ARRAY: IOCB FOR DISKWAIT, SWAPPER ETC.	15388800 31.170.6	574 599
3	15389000	TASKTYPE,	% SEE PROCESSTYPE DEFINE ET SEQ.	15389000 31.162.5	599
4	15389700	HSINFO,	% HOSTSERVICES TAG INFORMATION	15389700 31.185.7	744
5	15389800	SURROGATEINFO,	% FOR CONTROLLING INTER-HOST TASKING	15389800 31.162.5	744 k 599 E 641 k
6	15389830	WAITSTART,	% CLOCK WHEN AN EVENT-WAIT STARTED, IF > O.	15389830 35.023.6	641 k
7	15389840		% ALSO USED (<o) in<="" link="" stacks="" swap="" td="" to=""><td>15389840 35.023.6</td><td>541</td></o)>	15389840 35.023.6	541
8	15389842	DEIMPRUNTIMESET.	% THE BITS CORRESPONDING TO DEIMPLEMATION	15389842 35077205	55 k
9	15389844	ŕ	% WARNIG'S BITS ARE SET HERE TO REPORT THE	15389844 35077205	54 1 55 55
lid	15389846		% DISPLAYED WARNINGS FOR A SOFTWARE.	15389846 35077205	55
	15389850	%%%%	BELOW ARE ITEMS USED BY GEORGE, ORDERED &	15389850 35 023 6	341
	15389860	%%%%	GROUPED TOGETHER FOR BYOOD PERFORMANCE BOOST	15389860 35.023 6	1.
	15389870	ACTIONO	% THINGS THIS STACK MUST DO: CE ACTIONCASEE	15389870 35.023 6	341
1 1	15389880	DECENTEDOC	% PPOC TIME AT LAST DESUDDECT	15389880 35 023 6	5/1
	15389890	DALACE	% POW TO GEODGE OF SODHIA	15389890 35.020.0	1
1 1	15389900	DALACEDEE	% PSEUDOSTACK SIDW TO DALACE IN THIS DIR	15383830 33.023.0	341
1,4	15389910	HEACE .	% FILODOSIACK SIRW TO FALACE IN THIS FID	15389900 35.023.0	241
1.4	15355510	DAGE,	% MISUELLANEUUS: SEE ARP, EIU	4E200000 2E 002 (241
18	15389920	DEADVON	% CLOCK WHEN ENTEDED INTO DEADYO OF CEORGES	15369920 35.023.6	244
Ľ	15389930	KEAUTUN,	% AFTER INITIATE: NUMBER OF PARAMETERS % ARRAY: IOCB FOR DISKWAIT, SWAPPER ETC. % SEE PROCESSTYPE DEFINE ET SEQ. % HOSTSERVICES TAG INFORMATION % FOR CONTROLLING INTER-HOST TASKING % CLOCK WHEN AN EVENT-WAIT STARTED, IF > O. % ALSO USED (<0) TO LINK STACKS TO SWAP IN % THE BITS CORRESPONDING TO DEIMPLEMATION % WARNIG'S BITS ARE SET HERE TO REPORT THE % DISPLAYED WARNINGS FOR A SOFTWARE. BELOW ARE ITEMS USED BY GEORGE, ORDERED & GROUPED TOGETHER FOR B7000 PERFORMANCE BOOST % THINGS THIS STACK MUST DO: CF ACTIONCASEF % PROC TIME AT LAST RESURRECT % PCW TO GEORGE OF SOPHIA % PSEUDOSTACK SIRW TO PALACE IN THIS PIB % MISCELLANEOUS: SEE ARP, ETC % DM EVENT LINKAGE % CLOCK WHEN ENTERED INTO READYQ OR GEORGED % SCHEDULING INFORMATION % PROCESSOR CURRENTLY EXECUTING THIS STACK % CLOCK WHEN STACK GOT PROCESSOR % SIGNAL FOR GEORGE (FULL WORD, NOT LOCKED) LETGEORGEDOIT, ITEMS REPORTABLE AFTER EOT:	15389930 35.023.6	241
29	15389940	SCHEDDATA =KEADYUN,	% SCHEDULING INFURMATION	15389940 35.023.6	241
<u>Ľ</u> 1	15389950	PRUCESSUR,	% PROCESSUR CURRENILY EXECUTING THIS STACK	15389950 35.023.6	041
24	15389960	CLUCKONTIME,	% CLUCK WHEN STACK GUT PROCESSOR	15389960 35.023.6	941
23	15389970	LETGEORGEDOIT,	% SIGNAL FOR GEORGE (FULL WORD, NOT LOCKED)	15389970 35.023.6	541 Þ
24	15390000	ZOTEOTL =	LETGEORGEDOIT, .	15390000 35.023.6	541
25	15390200	%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	ITEMS REPORTABLE AFTER EOT:	15390200 31.062.2	240
26	15390400	ZOTBOT2,	% CLEARED BY DOCTOR BEFORE BOT	15390400 31.162.5	599 🛊
27	15390450	READYTIME = ZOTBOT2,	% TIME-I-WANTED-PROCESSOR ACCUMULATOR	15390450 35.023.6	641
28	15390500	PROCESSTIME,	% PROCESS TIME ACCUMULATOR (CLOCK UNITS)	15390500 35.023.6	641
29	15390540	\$ SET OMIT = NOT ACTIVETIM	E	15390540 34043107	74 E
вd	15390560	% ACTCOUNT & ACTTIME ONLY	TAKE UP PIB SPACE IF ACTIVETIME OPTION IS SET	15390560 34043107	74
31	15390580	ACTCOUNT,	TAKE UP PIB SPACE IF ACTIVETIME OPTION IS SET COUNTER TO CONTROL ACTTIME ACCUMULATES TIME DURING PROCESS OR I/O VETIME NINVALID WITHOUT THE ACTIVETIME OPTION INVALID WITHOUT THE ACTIVETIME OPTION RESTORE CORRECT COUNT ABOVE ARE ITEMS USED BY GEORGE I/O TIME ACCUMULATOR (CLOCK UNITS) COUNT OF INIT PBITS PROC TIME DOING INIT PBITS COUNT OF OTHER PBITS PROC TIME DOING PBITS EXCEPT INIT PBITS CF HISTYPEF, ETC, & HISTORYTYPE ET SEQ. CARDS READ=47:24 CARDS PUNCHED=23:24 TEMP - TIME CODE COMPILED (DOCTOR TO BOJ) LINES PRINTED HOLD SCHEDULE TIME BEFORE BOT ARRAY: TEXT DISPLAY OF PROCEDURE HISTORY RCW AND FAULT NUMBER OF LAST FAULT	15390580 35.023.6	641 641 641 641 641 641 641 641
32	15390600	ACTTIME,	% ACCUMULATES TIME DURING PROCESS OR I/O	15390600 34043107	74
33	15390620	\$ POP OMIT SET OMIT = ACTT	VETIME	15390620 3404310	74
34	15390640	ACTOUNT = 4'FFF'	% INVALID WITHOUT THE ACTIVETIME OPTION	15390640 3404310	74
35	15390660	ACTTIME = 4'FFF'	% INVALID WITHOUT THE ACTIVETIME OPTION	15390660 3404310	74
36	15390680	ACTTIMEFUNGE = DDOCESSTIME	% PESTOPE CORPECT COUNT	15390680 35 023 4	341
37	15390700	¢ POD OMIT	, W RESTORE CORRECT COORT	15390700 3404240	74
38	15390700	0/0/0/0/0/ 0/0/0/0/0/	AROVE ARE ITEMS USED BY GEORGE	15390700 3404310	341
39	15350600	/o/o/o/o	# T/O TIME ACCUMULATED (CLOCK UNITE)	15350000 33.023.0	167
1 - 1	15390850	INITERITIONE	% COUNT OF THIT DRITE	4530000 34.018.4	167
49	15390960	INITEDITATION,	% DOOR TIME DOING INIT DELLE	15350500 34.018.4	167
41	15390970	INTIPETITIONS	% PROUD TIME DUING INTI PBITS	15390970 34.018.4	+0 /
42	15390980	OTHERPSTICOUNT,	% COUNT OF OTHER PRITS	15390980 34.018.4	167
43	15390990	UIHERPBITTIME,	% PRUC TIME DOING PRITS EXCEPT INIT PRITS	15390990 34.018.4	167
44	15391000	HISTORY,	% CF HISTYPEF, ETC, & HISTORYTYPE ET SEQ.	15391000 31.162.5	- P
1 1	15391200	IOCOUNT1,	% CARDS READ=47:24 CARDS PUNCHED=23:24	15391200 31.162.5	99
46	15391300	COMPTIME = IOCOUNT1,	% TEMP - TIME CODE COMPILED (DOCTOR TO BOJ)	15391300 33.001.0)13
47	15391400	IOCOUNT2,	% LINES PRINTED	15391400 31.162.5	599
	15391500	SCHEDTIME = IOCOUNT2,	% HOLD SCHEDULE TIME BEFORE BOT	15391500 31.201.8	356
49	15391800	MYSTACKHISTORY,	% ARRAY: TEXT DISPLAY OF PROCEDURE HISTORY	15391800 31.162.5	599
5 d	15392400	STOPPOINT,	% RCW AND FAULT NUMBER OF LAST FAULT	15392400 31.162.5	599
51	15392600	ZOTBOT2L	=STOPPOINT,	15392600 31.166.2	240
52	15392800		ITEMS NEVER CLEARED:	· 15392800 31.062.2	240
53		LOCKEDEVENT,	% EVENT FOR "LOCKED" ATTRIBUTE	15393000 31.162.9	599
54	15393200	LOCKEDEVENT2,	% (SECOND WORD)	15393200 31.162.5	599 k
55	15393400	USERSTUFF		15393400 31.170.0	574
56			. % VALIDITYBITS.VALBIT(X) MARKS PIB ITEM X	15393600 31.170.0	574
57	15393800		ITEMS WITH VALIDITY BITS (LIMIT 48):	15393800 31.062.2	240
58		VALBIAS,	% SEE VALBIT DEFINE	15394000 31.162.	199
59	15394200	AVALUE =VALBIAS,	, % "TASKVALUE" ATTRIBUTE	15394200 31.166.3	
		MAXPROCESSTIME,	% LIMIT ON PROCESSOR TIME	15394200 31.100.	341
24	13334300	MANEROULDS LIME,	70 ETHIT ON FROCESSOR IIME	10007000 00.020.	ντι <u></u> Γ

1 15394350	SWAPSPEX,	% SWAPPER SPEX & CONTROLS: CF LOCATIONF ETC	15394350 35.023.641	1
2 15394400	CODECORE,	% D1 MEMORY SPEX: LIMITF & ESTIMATEF	15394400 31.162.599	2 3
3 15394600	•	% D2 MEMORY SPEX: LIMITF & ESTIMATEF	15394600 31.162.599	В
4 15394800		% LIMIT ON USER DISK	15394800 31.162.599	
5 15395000		% LIMIT ON ELAPSED TIME	15395000 34.018.467	4 5 6
6 15395020	MAXIOTIME.	% LIMIT ON I/O TIME	15395000 34.018.467	. [2
7 15395060	MAXWAIT,	% LIMIT ON DM LOCK WATT	15395060 34.018.467	
8 15395080	WATTI TMIT	% LIMIT ON DM LOCK WAIT % LIMIT ON EACH EVENT WAIT		7 8 9
			15395080 34.018.467	Ę
9 15395200	ERROR,	% -HOW IF ERROR ON TASK ATTRIBUTE # HOW	15395200 31.162.599	
15395400		% REF TO PIB TO KICK AT OUR STATUS CHANGE	15395400 31.170.674	10
11 15396200	· · · · · · · · · · · · · · · · · · ·	% THE "OPTION" ATTRIBUTE: CF FAULTCLSF, ETC	15396200 31.162.599	[1]
12 15396400		% REF TO PIB TO WAKE IF I CONTINUE OR DIE	15396400 31.170.674	11 12 13 14 15
13 15396600		% SOURCE ID OUTPUT ROUTE: CF DESTCONTROLF	15396600 31.162.599	[10
14 15396800	· ·	% LIMIT ON PRINTED LINES	15396800 31.162.599	114
15 15397000		% "DECLAREDPRIORITY" ATTRIBUTE	15397000 31.162.599_	15
16 15397200		% LIMIT ON PUNCH-CARD OUTPUT	15397200 31.162.599	
17 15397400		% NUMBER OF TIMES RESTARTED	15397400 31.162.599	117
18 15397600		% STK/JOB/PIB ID:SERIALSTKNRF, JOBNRF, TSKNRF	15397600 350741952	118
19 15397800	STACKLIMIT.	% LIMIT ON STACK SIZE	15397800 31.162.599	
20 15398000	STACKSIZE.	% INITIAL STACK SIZE	15398000 31.162.599	be
15398200	STATIONINEO	% "STATION"&"TANKING": STATIONF & TASKTANKF	15398200 31.162.599	آ رًا
22 15398600	TARGETTIME	% "TARGETTIME" ATTRIBUTE (NOT YET IMPL.)	15398600 31.162.599	17 18 19 20 21 22 25 26 27 28 29 30 31 32 31 32 31 32 31 32 31 32 33
23 15398800		% RESOURCE ACCTG: CF PETAPEF. ETC	15398800 31.162.599	<u></u>
	TADEDOO!	•• • • • • • • • • • • • • • • • • • • •		E.
24 15399000	TACKLIMIT	% DITTO	15399000 31.162.599	£:
25 15399200	IASKLIMII,	% DECREMENTED LIMIT ON TASK INITIATIONS	15399200 31.162.599	[2:
26 15399400	USERCODE,	% STANDARDFORM USERCODE (4 WORDS IN PIB)	15399400 31.170.674	<u> 20</u>
27 15399600		% 4TH WORD OF USERCODE PLUS:	15399600 31.166.240	p
28 15400000		% SEE USERCODEPRIVE DEFINE ETC.	15400000 32.055.474	þ ٤
29 15400400	,	%====== END FIXED PROCESS PIB =======	15400400 31.170.674	29
30 <u>15400600</u>		% FIRST WORD OF MYNAME IF APPENDED TO PIB	15400600 31.170.674	30
15400800	PIBNAMESPACE = 8;	% DEFAULT LENGTH FOR MYNAME APPENDIX	15400800 31.170.674	3
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1			WORKFILE [NOT NAMED] 5:05	PM TUESDAY, APRIL 9, 1985
3				
4	15506400	% FIELDS IN STACKINFO		15506400 31.053.002
5	15506600	· · · · · · · · · · · · · · · · · · ·	% PUN FOR GEORGE: BOX & 3 BITS & VIS	15506600 34.005.132
6	1111111		6 BOX NUMBER IN WHICH STACK RESIDES	15506800 34.005.132
8	15507000	· · · · · · · · · · · · · · · · · · ·	% WAITING ON A UNIT RSVP	15507000 34.005.132
0	15507200 15507400		% ETERNALIR MUST MONITOR TIME LIMITS % OLAYSCOUT SERVICES ARE NEEDED	15507200 34.005.132 15507400 34.005.132
lic		, VISIBLEF =[38:1]#	OLATSCOOT SERVICES ARE NEEDED	15507600 34.005.132
111			% MAY NOT BE SUSPENDED	15507800 34.005.132
12	15508000		% SUSPENDED BY SYSTEM	15508000 34.005.132
13	15508600	, PRIVILEGEDUSERF =[35:1]# 9	% THIS PROCESS IS PRIVILEGED	15508600 31.138.003
14			% THIS IS A COMPILER	15508800 31.138.003 15509000 31.138.003
15			% DBS IS (STILL) ACTIVE	15509000 31.138.003
16			% ST BY SYS REQUESTED	15509100 33.011.314
117			% NATURE OF STACK:	15509200 31.138.003
18		, MCPSTACKF =[31:1]# 9		15509400 31.138.003 15509500 32.048.380
19 20		, DBSF =[30:1]#	% FROZEN (D[O]) MCP STACK 10011000 % OLD STYLE DATABASE STACK 01010000	
61	15509600	, DBSr =[30:1]# /	NEW STYLE DATABASE STACK 01000001	15509600 32.033.179 15509700 32.033.179
22		, INTRINSICSF =[29:1]#	AN INTRINSICS STACK 01000001	
23		, SEGDICTSTACKF=[28:1]#	• • • • • • • • • • • • • • • • • • • •	15510000 31.138.003
24	15510200	, LIBRARYSTACKF=[27:1]#		15509800 31.138.003 15510000 31.138.003 15510400 31.138.003 15510600 321741152 15510800 31.138.003 15510900 340621601 15511000 31.170.674 15511200 31.062.240
25	15510400	, JOBSTACKF =[26:1]# 9	% A JOB STACK 00000101	15510400 31.138.003
26		, IRINDICATORF =[25:1]# S		15510600 321741152
27			% A TASK (PROCESSING) STACK OOOOXXX1	15510800 31.138.003
28	15510900		% IR STACK CAN BE INTERCEPTED	15510900 340621601
29			% OK TO LOOK AT THE ASSOCIATED PIB	15511000 31.170.674
30			% OK TO WRITE TO JOBLOG % STACK HAS BEEN BUILT AND IS IN CORE	
31	15511400 15511600		% STACK HAS BEEN BUIL: AND IS IN CORE % STACK (OR PARAMS) SUBJECT TO SEARCH	
33			% SEARCH MUST BE DONE VIA SEARCHQ	15511600 31.144.496 15511800 31.144.496
34	15512000		% STACK IS BLOCKED - NO PROCS ALLOWED	15512000 32.056.510
35			% STAT STACK NEEDED IF STATISTICS	15512200 31.201.870
36	1	, STRETCHINGF =[15:1]#	% STACK IS BEING STRETCHED	15512000 32.056.510 15512200 31.201.870 15512300 321781141 15512350 34.012.256
37	15512350		% WSSHERIFF IS INVOLVED WITH THIS	15512350 34.012.256
38	i		STACK'S MEMORY: EOJ MUST WAIT.	15512400 34.012.256
39		, SIEOJF =[13:1]#	% EOJ IS DESTROYING THIS STACK, SO	15512450 34.012.256
40	1	DONTHODATES 540 13"	WSSHERIFF MUST LAY OFF.	15512500 34.012.256
41	15512520		% DONT UPDATE SEGO STACKSIZE	15512520 340581495
42			% THIS LIBRARY MUST NOT BE RESUMED AT % THIS STAGE	15512540 350571529 15512560 350571529
43	15512560 15512570		% THIS STAGE % DO NOT KANGAROO ANY CODE THAT HAS	15512570 350571529
45	1		% THIS STACK AS A SEG DICT (DMS,HS)	15512570 350761985 15512580 350761985
46			% IF GOTOSOLVER FINDS THAT THE WORD	15512590 350762001
47		,	VIA SIRW ISNT EOURCW THEN	15512590 350762001 15512592 350762001 15512594 350762001 15512596 350762001 15512598 350762001
48			% IF THERE ISNT A GO-PAST SCW	15512594 350762001
49	15512596		% OR THIS BIT IS OFF THEN	15512596 350762001
50	15512598		% ITS TIME GET A MEMDUMP	15512598 350762001
51			% OTHERWISE	15512600 350762001
	15512602		TURN OFF THIS BIT AND USE THE	15512602 350762001
53	1		GO-PAST	15512604 350762001
54			% LIB BEING RESUMED BUT NOT STRETCHED	15512650 351122539
55	1		% YET	15512700 351122539 15512780 250762001
56 57	1		% THIS IS A SWAPPED TASK % COMBINATION: = BOXNO IF NOT SWAPPED	15512780 350762001 15512800 34.005.132
58		% FIELDS IN PIB[SEARCHINFO]	O COMBINALION - BOAND IF NOT SWAFFED	15512600 350762001 15512602 350762001 15512604 350762001 15512650 351122539 15512780 350762001 15512800 34.005.132 15512960 32.056.510 15512980 32.056.510 15512982 350711823
59			% NUMBER OF OUTSTANDING BLOCKS	15512980 32.056.510
60	1	, NSTACKSEARCHEDGESF =[23:16]#	,	15512982 350711823
	10012302	, 110110110111010101 -[20.10]#		

1 15512990	, WAITINGFORUNBLOCKF =[47: 1]#	15512990 34.035.855
2 15513000	% FIELDS IN PIB[CODELINKS] % CHANGED UNDER PROCESSCHANGELOCK , TADSBPF = [47:1]# % A BP IS PENDING FOR THIS SESSION	15513000 350531393
3 15513200	, TADSBPF =[47:1]# % A BP IS PENDING FOR THIS SESSION	15513200 350531393
4 15513250	, TADSPRIVATEF =[46:1]# % NON SHARABLE SEGDICT BECAUSE OF TADS	15513250 350531393
5 15513300	, BOJINTRINSICSF =[45:1]# % ORIGINAL BOJ MUST LINK INTRINSICS	15513300 32.060.553
6 15513400	, SEGDICTLINKF =[35:SNSIZE]# % LINK TO NEXT SEGDICT	15513400 35.026.736
7 15513500	% FOR SAME HEADER	15513500 35.026.736
8 15513600	% AVAILABLE =[21:10]# % FORMERLY - INTRINSICS STACK NUMBER	
9 15513800	, SEGDICTF =[11:SNSIZE]# % SEGMENT-DICTIONARY (D1) STACK	15513800 35.026.736
10 15513900	% NUMBER	15513900 35.026.736
11 15514000	% FIELDS IN PIB[COMPILERINFO] AND CODEFILE SEGO[SOCOMPILERINFO]	
12 15515000	, IPCCAPABLEF =[47:1]#	15515000 31.062.240
13 15515200	CODTCADARLEE -[46.4]#	15515000 31.062.240 45545000 04.000.040
1 1		15515200 31.062.240
14 15515400	, CONTROLPROGRAMF =[45:1]# % SET BY CP COMMAND IN SETSTATUS	15515400 31.157.559
15 15515600	, DMSCAPABLEF =[44:1]#	15515600 31.062.240
16 15515800	% NOBADPTRF =[43:1]# % NO "UPLEVEL" POINTER ASSIGNMENT	15515800 31.140.002
17 15516000	, PRIVILEGEDPROGRAMF =[42:1]# % SET BY PP COMMAND IN SETSTATUS , LIBRARYCAPABLEF =[41:1]# % COULD "FREEZE" AS A LIBRARY	15516000 31.157.559
18 15516200	, LIBRARYCAPABLEF =[41:1]# % COULD "FREEZE" AS A LIBRARY	15516200 31.092.375
19 15516210	, NOGLOBALEQUATEF =[40:1]# % WFL: NO GLOBAL FILE EQUATION	15516210 32.054.458
20 15516215	, TRANSPARENTPRIVF =[39:1]# % TRANSPARENT PRIVILEGE	15516215 321741148
21 15516218	, AUTOSUPPRESSF =[38:1]# % SET BY SUPPRESS COMAND IN SETSTATUS	15516218 35.023.638
22 15516219	, RESIDENTPROGRAMF =[37:1]# % SET BY RP COMMAND IN SETSTATUS	15516219 350711854
23 15516220	, LANGUAGETYPEF =[31:8]#	15516220 312241005
24 15516240	% IN COMPILERINFO AND IN SOCOMPILERINFO OF NEW CODE FILES:	15516240 312241005
25 15516260	, MARKLEVELF =[23:8]# % MARK*10+LEVEL LEQ 99; GEQ 10 (31)	15516260 312241005
26 15516270	% UNUSED [15:6]	15516270 312241005
27 15516280	, CYCLENUMBERF =[9:10]# % CYCLE LEQ 999	15516280 312241005
28 15516300	% IN SOCOMPILERINFO OF OLD CODE FILES:	15516300 312241005
29 15516320	, OLDMARKF =[23:8]# % MARK LEQ 9 (3)	15516320 312241005
30 15516340	, OLDLEVELF =[15:8]# % LEVEL LEQ 9	15516340 312241005
31 15516360	% IN SOCOMPILERINFO OF OLD CODE FILES: , OLDMARKF =[23:8]# % MARK LEQ 9 (3) , OLDLEVELF =[15:8]# % LEVEL LEQ 9 % OLDCYCLEF =[7:8]# % CYCLE LEQ 255 % FIELDS IN PIB[CODECORE] AND PIB[DATACORE] , LIMITF =[39:20]# ESTIMATEF =[19:20]#	15516360 312241005
32 15516400	% FIELDS IN PIB[CODECORE] AND PIB[DATACORE]	15516400 31,170,674
33 15516600	. LIMITF =[39:20]#	15516600 31.170.674
	, ENTIFE = [39:20]# . ESTIMATEF = [19:20]#	15510000 31.002.240
34 15516800	,	15516800 31.062.240
35 15517000	% FIELDS IN PIB[CPINFO]	15517000 31.170.674
36 15517200	<pre>% FIELDS IN PIB[CPINF0] , CPCOUNTF = [9:10]# % RP ATTRIBUTES FIELDS:</pre>	15517200 31.062.240
37 15517320	% OK ATTRIBUTES TILLUS.	15517320 35.027.799
38 15517340	, CPDISABLEF =[10:1]# % SET => NOT CHECKPOINTABLE	15517340 33.045.739
39 15517360	, CPDSEDF =[11:1]# % SET = DO NOT RUN EPILOG PROCEDURES	15517360 33.045.739
40 15517380	, BRCLASSF =[14:3]# % BRCLASS ATTRIBUTE + 1	15517380 35.027.799
41 15517400	, CPSTATUSF =[17:3]# % SEE CHECKPOINTNULLV,ETC	15517400 35.027.799
42 15517405		15517405 340531285
43 15517600	, TEMPCNTF =[27:10]#	15514000 31.2241005 15515000 31.062.240 15515200 31.062.240 15515400 31.157.559 15515800 31.140.002 15516000 31.157.559 15516200 31.092.375 15516210 32.054.458 15516213 32.054.458 15516218 35.023.638 15516219 350711854 1551620 31.2241005 15516240 31.2241005 15516240 31.2241005 15516280 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.2241005 15516300 31.062.240 15516300 31.062.240 15516300 31.062.240 15517300 31.170.674 15517300 31.062.240 15517300 31.062.240 15517300 35.027.799 15517340 35.027.799 15517360 35.027.799 15517400 35.027.799 15517400 35.027.799 15517800 35.027.799 15517800 35.027.799 15517800 35.027.799 15517800 35.027.799 15517800 35.027.799 15518200 31.062.240 15518200 31.062.240
44 15517800		15517800 35.027.799
45 15517900	, CPIXF = [43:HEADERBITS]# , RBCOUNTF = [45:2]# % COUNT OF ERRORHANDLER REBUILDS , CPDKF = [46:1]#	15517900 35.027.799
46 15518000	, CPDKF =[46:1]#	15518000 31.062.240
47 15518200	, CPPKF =[47:1]#	15518200 31.062.240
	% FIELDS IN PIB[PRINTLIMIT]	15518210 350792173
HO 100 182 10		
48 15518210 49 15518220	BDNUMF = 1.47 · 10 #	15518220 350792173
49 15518220	, BDNUMF = [47:10]# PIRPRINTLIME = [37:38]#	
49 15518220 50 15518230	, PIBPRINTLIMF =[37:38]#	
49 15518220 50 15518230 51 15518250	, PIBPRINTLIMF =[37:38]# % FIELDS IN PIB[PUNCHLIMIT]	
49 15518220 50 15518230 51 15518250 52 15518300	, PIBPRINTLIMF = [37:38]# % FIELDS IN PIB[PUNCHLIMIT] , PIBTONGUEF = [47: 8]#	
49 15518220 50 15518230 51 15518250 52 15518300 53 15518350	, PIBPRINTLIMF = [37:38]# % FIELDS IN PIB[PUNCHLIMIT] , PIBTONGUEF = [47: 8]# , PIBPUNCHLIMF = [39:40]#	
49 15518220 50 15518230 51 15518250 52 15518300 53 15518350 54 15518400	, PIBPRINTLIMF = [37:38]# % FIELDS IN PIB[PUNCHLIMIT] , PIBTONGUEF = [47: 8]# , PIBPUNCHLIMF = [39:40]# % FIELDS IN PIB[RESTARTCOUNT]	
49 15518220 50 15518230 51 15518250 52 15518300 53 15518350 54 15518400 55 15518600	, PIBPRINTLIMF = [37:38]# % FIELDS IN PIB[PUNCHLIMIT] , PIBTONGUEF = [47: 8]# , PIBPUNCHLIMF = [39:40]# % FIELDS IN PIB[RESTARTCOUNT] , STACKSZF = [47:16]# %CLEARED BY INITIATE, SET BY RESTART	
49 15518220 50 15518230 51 15518250 52 15518300 53 15518350 54 15518400 55 15518600 56 15518620	, PIBPRINTLIMF = [37:38]# % FIELDS IN PIB[PUNCHLIMIT] , PIBTONGUEF = [47: 8]# , PIBPUNCHLIMF = [39:40]# % FIELDS IN PIB[RESTARTCOUNT] , STACKSZF = [47:16]# %CLEARED BY INITIATE, SET BY RESTART , TADSD1F = [31:SNSIZE]# % SEGDICT OF PROGRAM THAT INVOKE	
49 15518220 50 15518230 51 15518250 52 15518300 53 15518350 54 15518400 55 15518600 56 15518620 57 15518640	, PIBPRINTLIMF = [37:38]# % FIELDS IN PIB[PUNCHLIMIT] , PIBTONGUEF = [47: 8]# , PIBPUNCHLIMF = [39:40]# % FIELDS IN PIB[RESTARTCOUNT] , STACKSZF = [47:16]# %CLEARED BY INITIATE, SET BY RESTART , TADSD1F = [31:SNSIZE]# % SEGDICT OF PROGRAM THAT INVOKE % TADS	
49 15518220 50 15518230 51 15518250 52 15518300 53 15518400 54 15518400 55 15518600 56 15518620 57 15518640 58 15518650	, PIBPRINTLIMF = [37:38]# % FIELDS IN PIB[PUNCHLIMIT] , PIBTONGUEF = [47: 8]# , PIBPUNCHLIMF = [39:40]# % FIELDS IN PIB[RESTARTCOUNT] , STACKSZF = [47:16]# %CLEARED BY INITIATE, SET BY RESTART , TADSD1F = [31:SNSIZE]# % SEGDICT OF PROGRAM THAT INVOKE	
49 15518220 50 15518230 51 15518250 52 15518300 53 15518350 54 15518400 55 15518600 56 15518620 57 15518640	, PIBPRINTLIMF = [37:38]# % FIELDS IN PIB[PUNCHLIMIT] , PIBTONGUEF = [47: 8]# , PIBPUNCHLIMF = [39:40]# % FIELDS IN PIB[RESTARTCOUNT] , STACKSZF = [47:16]# %CLEARED BY INITIATE, SET BY RESTART , TADSD1F = [31:SNSIZE]# % SEGDICT OF PROGRAM THAT INVOKE % TADS	15518230 350792173 15518250 350711762 15518300 350711762 15518350 350711762 15518400 33.045.739 15518600 33.045.739 15518620 350762003 15518640 350531393

	15518770	, TADSVALIDF =[17:1]# % TADS ATTRIBUTE HAS BEEN SET % (PREVENTS DOCTOR FROM OVERRIDING		2 3
	15518780	% PPB WITH COMPILE TIME PPB).		В
	15518800	, RESTARTCOUNTF =[16:17]# % 2**17-1 RETRIES SHOULD BE ENOUGH		ĽΙ
1 1	15518860	% FIELDS IN PIB [DBSINFO]		5
	15518862	, DBSDYINGF = [45: 1]# % SET TO 1 WHEN DBS IS PROCESSKILLED	15518862 33.041.627	6
1 1	15518864	, DBSDYINGF = [45: 1]# % SET TO 1 WHEN DBS IS PROCESSKILLED , DBSSHUTDOWNF = [44: 1]# % SET TO 1 TO TELL DBS TO GO AWAY , STACKSINDMSOPENF = [43:SNSIZE]# % # OF STACKS WAITING IN DMSOPEN	15518864 33.041.627	Ľ
	15518866 15518868	, STACKSINDMSOPENF =[43:SNSIZE]# % # OF STACKS WAITING IN DMSOPEN % FOR DATABASE TO BECOME ACTIVE	15518866 35.026.736 15518868 33.041.627	٦ ا
	15518870	, TOPOFDBSSCWF =[31:16]# % OFFSET OF SCW IN TOPMOST ENVIRONMENT		10
	15518880	, TOPOFDBSSCWP =[31.16]# % OFFSET FROM BOSR OF TOP OF FROZEN	15518880 32.033.179	11
1 1	15518900	, TOPOFDBSF = [15:16]# % OFFSET FROM BOSR OF TOP OF FROZEN % PORTION OF DBS (NEW DBS ONLY AFTER % DMSFREEZE)	15518900 32.033.179	12
	15518920	% DMSFREEZE)	15518920 32.033.179	12 13
14	15518940	% FIELDS IN PIB[PORTLIB PIB]	15518940 35.005.118	14
15	15518950	, MPS_COUNTF =[39:20]# % NO OF REMOTE FILES CONNECTED TO MPS	15518950 350772066	15
16	15518960		15518960 35.005.118	16
	15519000	% FIELDS IN PIB[PROCESSFAMILYLINK]	15519000 31.170.674	17
1 -	15519200	, CAUSEREPLYEVENTF =[47:1]# % FOR DEATHINFAMILY COORDINATION	15519200 31.062.240	18
1 1	15519400	, EXTERNALPROCESSF = [46:1]# % THIS TASK HAS ITS OWN CODE FILE	15519400 31.062.240	19
1 1	15519600	, PORT_COUNTF = [19:20]# % NO OF PORTS DECLARED AND TOUCHED % FIELDS IN PIB[PROCESSFAMILYLINK] , CAUSEREPLYEVENTF = [47:1]# % FOR DEATHINFAMILY COORDINATION , EXTERNALPROCESSF = [46:1]# % THIS TASK HAS ITS OWN CODE FILE , COPYPARAMF = [45:1]# % THERE IS A COPYPESC PARAMETER % SEARCH CONTROL FIELD % THIS STACK MAY:	15519600 31.071.002	14 15 16 17 18 19 20 21
	15519800	% SEARCH CONTROL FIELD % THIS STACK MAT.		
1 1	15520000	, CANSEEF =[44:1]# % REFERENCE DATA IN PARENT STACK , RUNCODEF =[43:1]# % COPY DESCRIPTORS FORM PARENT SEGDICT	15520000 31.062.240 15520200 31.062.240	22 23 25 26 27 28 29 30
	15520200 15520400	, COPYDESCF =[43:1]# % COPY DESCRIPTORS FORM PARENT SEGDICT , COPYDESCF =[42:1]# % COPY DESCRIPTORS FROM PARENT STACK	15520400 31.062.240	24
1 -	15520600	, COPTIDESCE = [42.1]# % COPTIDESCRIPTORS FROM PARENT STACK , BADPTRF = [41:1]# % ASSIGN "UPLEVEL" POINTER IN PARENT	15520600 31.062.240	57
	15520800	, DRELBADPTRF =[40:1]# % ASSIGN UPLEVEL POINTER WITHIN OWN	15520800 31.062.240	26
1 1	15521000	% SCOPE (ACCORDING TO COMPILER)	15521000 31.062.240	27
	15521200	% RUNCODE OR BADPTR IMPLIES COPYDESC;	15521200 31.062.240	28
	15521400	% COPYDESC IMPLIES CANSEE	15521400 31.062.240	29
30	15521500	, GLOBALFILEEDGE =[36:1]# % GOT EDGE FROM JOB FOR GLOBAL FILE		
31	15521600	, PARENTF =[35:12]#	15521600 31.062.240	31
	15521800	, SIBLINGF =[23:12]#	15521800 31.062.240	32
	15522000	, OFFSPRINGF =[11:12]#	15522000 31.062.240	<u> 1</u> 33
	15522200	% FIELDS IN PIB[EXTERNALFAMILYLINK]	15522200 31.170.674	34
	15522300	, EXILINKAGELUCKEDF=[47:1]# % LINKAGE MAY NUI BE ALIERED	15522300 31.181.700 15522400 31.163.603	22
	15522400 15522600	% FIELDS IN PIB[EXTERNALFAMILYLINK] , EXTLINKAGELOCKEDF=[47:1]# % LINKAGE MAY NOT BE ALTERED % PARENTF =[35:12]# % PARENTS STACK NUMBER % SIBLINGF =[35:12]# % BROTHERS TAG % OFFSPRINGF =[11:12]# % SONS TAG % FIELDS IN PIB[HEADERACCESS]	15522600 31.163.603	젊게
	15522800	% OFFSPRINGF = [11:12]# % SONS TAG	15522800 31.163.603	38
	15523200	% FIELDS IN PIB[HEADERACCESS]	15523200 35.013.388	39
L	15523400	, JOBFILEINDEXF =[31:16]# % DISKFILEHEADERS INDEX OF JOBFILE	15523400 35.013.388	4d
	15523600	, CODEFILEHEADERINDEXF	15523600 35.013.388	41
	15523800	=[15:16]# % DISKFILEHEADERS INDEX OF CODEFILE	15523800 35.013.388	42
	15524400	% FIELDS IN PIB[JOBINFO]	15524400 31.170.674	43
	15524600	, JOBSTKNRF = [47:SNSIZE]#	15524600 350591706	44
45	15524660	, IBSF =[35:6]#	15524660 350591706	# 5
			1550ACOA 25050170C	
46	15524680	, MYJOBFILEF =[29:1]#	15524680 350591706	46
46 47	15524680 15524700	, CLASSBIT =[28:1]#	15524700 350591706 15524700 350591706	46 47
46 47 48	15524680 15524700 15524720	, CLASSBIT =[28:1]# . NOJOBSUMMARYIOBIT=[27:1]#	15524700 350591706 15524720 351152609	46 47 48
46 47 48 49	15524680 15524700 15524720 15524740	, CLASSBIT =[28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE =[26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT	15524700 350591706 15524720 351152609 15524740 351112511	46 47 48 49
46 47 48 49 50	15524680 15524700 15524720 15524740 15524800	, CLASSBIT = [28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE = [26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT , JOBCLASSF = [19:10]#	15524700 350591706 15524720 350591706 15524740 351152609 15524800 31.062.240 15525200 31.062.240	46 47 48 49 50
46 47 48 49 50	15524680 15524700 15524720 15524740 15524800 15525200	, CLASSBIT = [28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE = [26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT , JOBCLASSF = [19:10]# , DECKGROUPNOF = [9:10]#	15524700 350591706 15524700 350591706 15524740 351152609 15524740 351112511 15524800 31.062.240 15525200 31.170.674	46 47 48 49 50 51
46 47 48 49 50 51 52	15524680 15524700 15524720 15524740 15524800 15525200 15526000	, CLASSBIT = [28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE = [26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT , JOBCLASSF = [19:10]# , DECKGROUPNOF = [9:10]# % FIELDS IN PIB[OPTION]	15524700 350591706 15524700 350591706 15524720 351152609 15524740 351112511 15524800 31.062.240 15525200 31.062.240 15526000 31.170.674 15526200 31.141.003	46 47 48 49 50 51 52 53
46 47 48 49 50 51 52 53	15524680 15524700 15524720 15524740 15524800 15525200 15526000 15526200	, CLASSBIT = [28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE = [26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT , JOBCLASSF = [19:10]# , DECKGROUPNOF = [9:10]# % FIELDS IN PIB[OPTION] , LONGCLSF = [0:1]#	15524700 350591706 15524700 350591706 15524720 351152609 15524740 351112511 15524800 31.062.240 15525200 31.062.240 15526200 31.170.674 15526200 31.141.003 15526400 31.062.240	46 47 48 49 51 52 53 54
46 47 48 50 51 53 54	15524680 15524700 15524720 15524740 15524800 15525200 15526000	, CLASSBIT = [28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE = [26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT , JOBCLASSF = [19:10]# , DECKGROUPNOF = [9:10]# % FIELDS IN PIB[OPTION] , LONGCLSF = [0:1]#	15524700 350591706 15524700 350591706 15524720 351152609 15524740 351112511 15524800 31.062.240 15525200 31.062.240 15526200 31.170.674 15526200 31.141.003 15526400 31.062.240	46 47 49 55 55 54 55
46 47 49 55 55 54 55	15524680 15524700 15524720 15524740 15524800 15525200 15526000 15526200 15526400	, CLASSBIT = [28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE = [26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT , JOBCLASSF = [19:10]# , DECKGROUPNOF = [9:10]# % FIELDS IN PIB[OPTION] , LONGCLSF = [0:1]# , FAULTCLSF = [1:1]#	15524700 350591706 15524700 350591706 15524740 351152609 15524740 351112511 15524800 31.062.240 15525200 31.170.674 15526200 31.170.674 15526400 31.062.240 15526600 31.062.240 15526800 31.138.003	46 47 49 50 52 54 55 56
47 49 55 55 55 55 57	15524680 15524700 15524740 15524740 15525200 15525200 15526200 15526200 15526600 15526800 15526800 15526800	, CLASSBIT = [28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE = [26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT , JOBCLASSF = [19:10]# , DECKGROUPNOF = [9:10]# % FIELDS IN PIB[OPTION] , LONGCLSF = [0:1]# , FAULTCLSF = [1:1]# , DSEDCLSF = [2:1]# % CCLISTCLSF = [3:1]# , BACKUPPRINTCLSF = [4:1]#	15524700 350591706 15524700 350591706 15524740 351152609 15524740 351112511 15524800 31.062.240 15525200 31.170.674 15526200 31.141.003 15526400 31.062.240 15526600 31.062.240 15526800 31.138.003 15527000 31.062.240	46 47 48 55 55 55 55 57
47 49 55 55 55 55 57	15524680 15524700 15524720 15524740 15525200 15525200 15526000 15526200 15526400 15526600 15526600	, CLASSBIT = [28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE = [26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT , JOBCLASSF = [19:10]# , DECKGROUPNOF = [9:10]# % FIELDS IN PIB[OPTION] , LONGCLSF = [0:1]# , FAULTCLSF = [1:1]# , DSEDCLSF = [2:1]# % CCLISTCLSF = [3:1]# , BACKUPPRINTCLSF = [4:1]# , AUTORMCLSF = [5:1]#	15524700 350591706 15524700 350591706 15524740 351152609 15524740 351112511 15524800 31.062.240 15525200 31.170.674 15526200 31.141.003 15526400 31.062.240 15526600 31.062.240 15526800 31.138.003 15527200 31.062.240	467 489 551 555 555 555 555 555 555
47 8 9 0 1 2 3 4 5 6 7 8 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	15524680 15524700 15524740 15524740 15525200 15525200 15526200 15526200 15526600 15526800 15526800 15526800	, CLASSBIT = [28:1]# , NOJOBSUMMARYIOBIT=[27:1]# %, AVAILABLE = [26:7]# % SAVE 2 BITS FOR STKNRF ADJUSTMENT , JOBCLASSF = [19:10]# , DECKGROUPNOF = [9:10]# % FIELDS IN PIB[OPTION] , LONGCLSF = [0:1]# , FAULTCLSF = [1:1]# , DSEDCLSF = [2:1]# % CCLISTCLSF = [3:1]# , BACKUPPRINTCLSF = [4:1]#	15524700 350591706 15524700 350591706 15524740 351152609 15524740 351112511 15524800 31.062.240 15525200 31.062.240 15526000 31.170.674 15526200 31.141.003 15526400 31.062.240 15526800 31.062.240 15526800 31.138.003 15527000 31.062.240 15527000 31.062.240 15527400 31.062.240	3333456789012345678901234567890

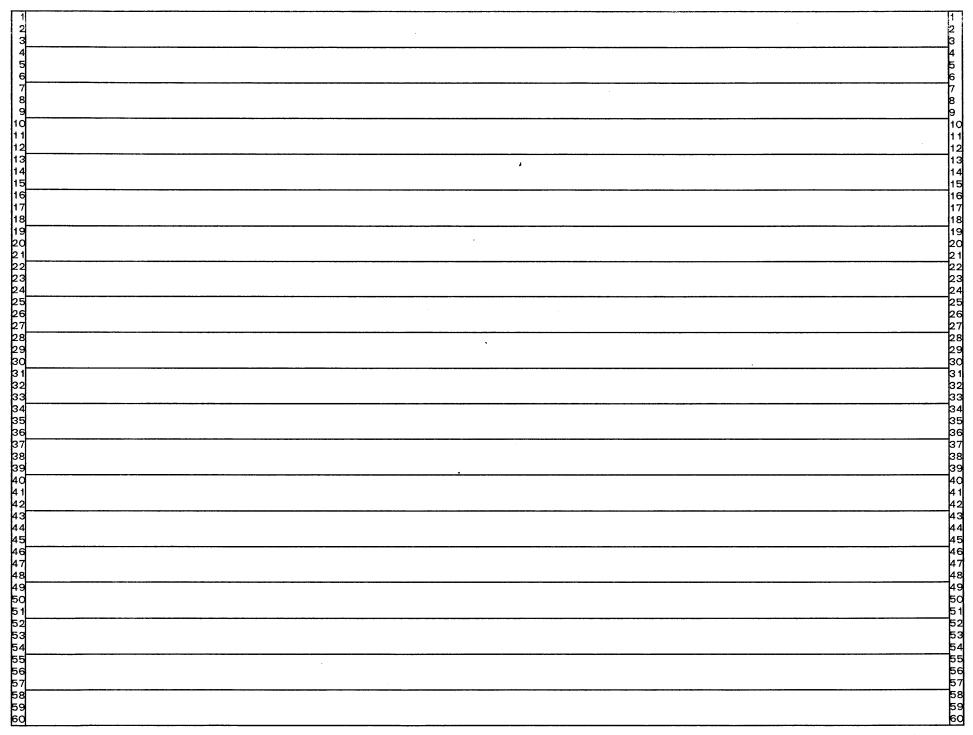
1	15527800	, ARRAYSCLSF =[8:1]#	% IF ADDING DUMP-CONTROL OPTIONS,		1
2	15528000	, CODECLSF =[9:1]#	% EMBELLISH THE DEFINE "DSOPTIONS"	15528000 31.062.240	12
3	15528200	, FILESCLSF =[10:1]#	% IN MIXREQUEST OF SETSTATUS.	15528200 31.062.240	В
4	15528400	, BACKUPPUNCHCLSF =[11:1]#		15528400 31.062.240	4
1 4	15528600	, NOSUMMARYF = [12:1]#		15528600 31.062.240	5
1 6	15528800	% HARDDUMPF =[13:1]#		15528800 31.138.003	[
4	15529000	, PRIVATETASKF =[14:1]#		15529000 31.062.240	——F
14					Ľ
8	15529200	, DBSDUMPF =[15:1]#		15529200 31.062.240	12
9	15529400	% PDSDUMPF =[16:1]#	***** AVAILABLE ******	15529400 32.092.773	9
10	15529420	, IPCOVERRIDEF =[17:1]#		15529420 31.191.727	10
111	15529450	, SIBDUMPF =[18:1]#		15529450 31.185.740	11
12	15529500	, LIBRARYDUMPF =[19:1]#		15529500 31.185.740	112
13	15529550	, PRIVLIBDUMPF =[20:1]#		15529550 31.185.740	13
14	15529600	% FIELDS IN PIB[PATHCONTROL]		15529600 31.170.674	14
1	15529800]# % VALIDITYBIT IS FOR THIS FIELD	15529800 31.062.240	15
		, DESTMOSF =[45:6]		15530000 31.062.240	
	15530000	· · · · · · · · · · · · · · · · · · ·			[15
	15530200	, DESTINATIONUNITF =[39:16	-	15530200 31.062.240	16 17
1 L	15530400	, DESTISREMOTEF =[39:1]		15530400 31.062.240	118
	15530600	, DESTUNITF =[38:15		15530600 31.062.240	19 26 2
2d	15530800	, ORGCONTROLF =[23:24]#	15530800 31.062.240	þ :
1 1	15531000	, ORGWANTSF =[23:2]	#	15531000 31.062.240	þ
22	15531200	. ORGWANTSSUMMARYF=[23:1]		15531200 31.062.240	b:
23	15531400	, ORGWANTSMESSAGEF=[22:1]		15531400 31.062.240	5
24	15531600	. DRGMCSF =[21:6]		15531600 31.062.240	2; 2; 2,
Ľች		, , , , , , , , , , , , , , , , , , , ,			<u>-</u>
25	15531800	, ORIGINALUNITF =[15:16	<u>-</u>	15531800 31.062.240	12:
26	15532000	, ORGISREMOTEF = [15:1]		15532000 31.062.240	12
27	15532200	, ORGUNITF =[14:15]#	15532200 31.062.240	b.
28	15532400	% FIELDS IN PIB[REPLY]		15532400 31.170.674	2: 2: 2: 2: 3:
29	15532600	, REPATTNF =[47:1]		15532600 31.062.240	2
зd	15532800	, REPINFOF =[45:40]# % INFO DEPENDING ON TYPE OF REPLY	15532800 31.062.240	bs.
31	15533000	. REPINFO1F =[45:20]# % SUBFIELD 1	15533000 31.062.240	3: 3:
32	15533200	, REPINFO2F =[25:20	• • • • • • • • • • • • • • • • • • • •	15533200 31.062.240	3
33	15533400		# % REPLY NUMBER (O - 46)	15533400 31.062.240	Į,
34		% FIELDS IN PIB[SERIAL]	, , , refer tomber (O TO)	15533600 31.170.674	
• •	15533600		CI7F1#		13.
	15533800	, SERIALSTKNRF =[47:SN		15533800 350591706	3
36	15534000	, JOBNRF =[31:16		15534000 31.062.240	
37	15534200	, TSKNRF =[15:16]#	15534200 31.062.240	3.
38	15534400	% FIELDS IN PIB[USAGE] % SET BE	FORE INIT. OR FROM OWN STACK ONLY	15534400 321781213	3:
39	15534600	, STKMCSSTATUSF =[47:8]	#	15534600 31.062.240	3: 3: 3: 3: 3: 4:
4d	15534800	, STKISMCSF =[47:1]		15534800 31.062.240	
1	15535000	, STKMCSNRF =[46:7]		15535000 31.062.240	نما ا
	15535200	, LIBPERMANENTF =[39:1]		15535200 34.017.440	L
C\$					
13	15535300	, BNACOUNTF =[38:6]	,,		4 4 4 4 4 4 4
44	15535400	, SHARINGSPEC =[32:4]		15535400 351022457	Ľ.
45	15535600	, WARNDIDDLEF =[28:1]		15535600 350762002	4
46	15535800	, INHIBSOFTINTSF =[27:2]		15535800 31.062.240	14
47	15536000	, GENDISABLEF =[27:1]		15536000 31.062.240	4
48	15536200	, DOINGSOFTINTF =[26:1]	# % WE ARE PROCESSING SOFT INTERRUPT	15536200 31.062.240	
49	15536400	, PBITSTATEF =[25:2]		15536400 31.062.240	4
50	15536500	, UNITSWARNEDF =[23:1]		15536500 350451294	5
51	15536520	, GETSTATUSWARNEDF =[22:1]		15536520 350471330	5
	15536600	, IORESULTWARNEDF =[21:1]		15536600 350431234	
52		, TUKESULIWAKNEUF -[21:1]			5
53	15536800	NOMENTS	% CHANGED WARNING GIVEN (REMOVE @ 36)	15536800 350431234	
54	15537200	, NOMEMF =[20:1]		15537200 31.062.240	
55	15537400	, DUMPINGF =[19:1]		15537400 31.062.240	5
56	15537600	, SORTTINGF =[18:1]		15537600 31.062.240	 5
57	15537800	, UNITATTACHEDF =[17:1]	#	15537800 31.062.240	5 5 5
58	15538000	, LIBSTATEF =[16:3]		15538000 31.183.733	5
59	15538150	, LIBINITBYLINKER = 1 #	% INITIATED BY LIBRARY LINKER	15538150 31.183.733	15
	15538200	, LIBINITBYUSER = 2 #	% NORMAL TASK STARTING TO FREEZE	15538200 31.183.733	5 5 6
껕∽	.5555200	, LIDINI - Z #	/ HORME THOSE STARTING TO TREEZE		

	5538250	, LIBFROZEN	= 3 # % USABLE STATIC LIBRARY = 4 # % UNLINKABLE BUT STILL IN USE	15538250 31.183.733
2 15	5538300	% LIBTHAWING	= 4 # % UNLINKABLE BUT STILL IN USE	15538300 31.183.733 15538350 31.183.733
3 15	5538350	, LIBRESUMED	= 5 # % NO LONGER LINKED NOR LINKABLE	15538350 31.183.733
4 15	5538400	, LIBNEVERFROZE	= 6 # % INIT BY LINKER BUT NEVER FROZE	15538400 31.183.733
5 15	5538600	, NOHISTORYF	=[13:1]#	15538600 31.062.240
6 15	5538700	, SYSTEMLIBRARYF	=[12:1]# % ALLOWED SYSTEM LIBRARY PRIVILEGES	15538700 321741167
7 15	5538800	. FREEZEOVERRIDEF	=[11:1]# % OVERRIDE THE USERS FREEZE.	15538800 33.030.547
8 15	5539000	, DONTSTRETCHF	=[10:1]# % DO NOT STRETCH THIS STACK	
	5539100	, BLOCKSEARCHLOOPF	=[9:1]# % GOTOSOLVER LOOPING ON BLOCKSEARCH	
	5539120	, SEGPTRWARNEDF	=[8:1]# % FAULT(S) DUE TO UNINDEXED SEGMENTED	15539120 35.015.521
	5539140	, oral intraction	% POINTER ARGS TO STRING OPS; HAPPENS	
	5539160		% ON B7XXX WITH PRE 3.4 STRING CODE.	15539160 35.015.521
	5539200	, WARNSECURITYF	=[7:1]# % REMOVE ON 3.6	15539200 350762002
	5539250	, CURRENTASNF	=[6:6]# % FOR MOVESTACK, CHANGED BY SELECTBOX	15539250 34.004.078
	5539300	, ARP	=[0:1]# % ASSOCIATION OF RETIRED PROCESSORS	15539300 32.072.627
	5539400			15555500 52.072.027
	5539500		ATA] WHILE STATUS LEQ SELECTED	15539400 31.170.674
		, SCHEDULEQLINKF	=[47:SNSIZE]# % NEXT STACK IN SCHEDULE QUEUE =[35:16]# % LENGTH OF TASK STACK	15539500 350591706
	5539800	, SCHEDD2SIZEF	=[35:16]# % LENGTH OF TASK STACK	15539800 31.140.002
	5540000	, SCHEDCOREF	=[19:20]# % CORE ESTIMATE	15540000 31.140.002
	5540200	% FIELDS IN PIB[STATIO	•	15540200 31.170.674
	5540400	, TASKTANKF	=[33:2]#	15540400 31.062.240
	5540600	, STATIONF	=[15:16]#	15540600 31.138.003
1 1	5540800	% FIELDS IN PIB[STOPPO		15540800 31.170.674
	5541000	, FAULTNUMF	=[47:8]# % FAULT REASON	15541000 31.062.240
	5541100	, FAULTHANDLEDF	=[39:1]# % ON IF FAULT PROCEDURE HANDLED IT	15541100 33.042.678
	5541200	% RCWGUTSF	=[35:36]	15541200 31.062.240
1	5541400	% FIELDS IN PIB[HISTOR		15541400 31.170.674
	5541440	, NOFAULTOFHISF	=[47:1]#	15541440 321731114
	5541460	, BITOFHISTORYF	=[46:1]#	15541460 321731114
	5541480	, IGNOREDSEDF	=[45:1]#	15541480 321731114
	5541500	, HISTINFOF	=[43:20]#	15539140 35.015.521 15539200 35.015.521 15539250 34.004.078 15539300 32.072.627 15539400 31.170.674 15539500 350591706 15539800 31.140.002 15540000 31.140.002 15540400 31.062.240 15540600 31.138.003 15540800 31.170.674 15541000 33.042.678 1554100 33.042.678 15541400 31.062.240 15541400 31.062.240 15541400 31.170.674 15541400 31.170.674 15541500 321731114 15541460 321731114 15541460 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15541500 321731114 15543500 31.062.240 15543100 35.026.736 15543100 33.04.993 15543140 33.104.993 15543150 33.044.732 15543200 31.062.240 15543500 31.062.240 15543500 35.026.736 15543500 31.062.240 15543500 31.062.240 15543500 31.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543500 30.062.240 15543550 32.147.947
	5541520	, HISTRCTF	=[23:24]# % COMBINED REASON, CAUSE, TYPE FIELDS	15541520 321731114
	5541540	, HISREASONF	=[23:8]#	15541540 321731114
	5541560	, HISCAUSEF	=[15:8]#	15541560 321731114
	5541600	, HISTYPEF	=[7:8]#	15541600 31.062.240
36 15	5543000	% FIELDS IN PIB[TASKLI	MIT]	15543000 31.170.674
37 15	5543100	, TASKDECLARERF	= [47:SNSIZE]# % STACK DECLARING PIB = [35:8]# = [27:8]# % VALIDITY BITS FOR SWITCHES = [19:8]# % COBOL SWITCHES 1 TO 8 = [11:2]#	15543100 35.026.736
38 15	5543110	% , UNUSED	=[35:8]#	15543110 34.035.841
39 15	5543120	, SWVALIDF	=[27:8]# % VALIDITY BITS FOR SWITCHES	15543120 33.104.993
40 15	5543140	, SWITCHESF	=[19:8]# % COBOL SWITCHES 1 TO 8	15543140 33.104.993
41 15	5543145	% UNUSED	=[11:2]#	15543145 33.104.993
42 15	5543150	, JOBSUMMARYF	=[9:4]# % CONTAINS JOBSUMMARY VALUE	15543150 33.044.732
	5543200	, TASKLIMVALIDF	=[5:1]#	15543200 31.062.240
44 15	5543400	TASKI TMF	=[A·5]#	15543400 31.062.240
, ,	5543450	% FIELDS IN PIB[LIBINI	TIATOR], ONLY VALID BEFORE LIBRARY FREEZES	15543450 32.147.947
	5543500	, LIBINITSTKNRF	=[47:SNSIZE]# % SN OF INITIATOR OF THIS LIBRARY	15543500 350591706
	5543520	, LIBRARYUSERF	=[35:SNSIZE]# % SN OF USER OF THE LIBRARY.	15543520 35.026.736
, ,	5543540	INBYCALL INGPROCE	=[4·1]# % STACK IS IN A LIB BYCALLING PROC	15543540 351022457
	5543550	, LIBACCESSTYPEF	=[3:4]# % VALUE OF LIBACCESS PARAM IN TEMPLTE	15543550 32.147.947
	5543600	% FIELDS IN PIBITASKIN	FO] % SET BEFORE INIT. OR WITH PROCESSCHANGELOCK	15543600 321781213
	5543800	, INUSEBYSYSTEMF	=[47:1]# % TASK IS BEING STARTED OR RUNNING	15543600 321781213 15543800 321781213
	5544000	, COMPILETYPEF	=[46:3]# % SEE COMPILETYPE	15544000 321781213
	5544100	, PROGRAMLOCKEDF	=[43:1]# % ODT <mixno> LP</mixno>	15544100 321781213
	5544200	. QPRIORLIMTF	=[42:7]# % PRIORITY LIMIT FROM QUEUE	15544200 321781213
		, ASN WARNING GIVEN	=[35:1]# % 1 IF THE WARNING WAS GIVEN ALREADY	15544250 351612827
54 15	5544250			
54 15 55 15	5544250 5544300		=[34:1]#	15544300 351612827
54 15 55 15 56 15	5544300	% AVAĪLABLE	=[34:1]# =[33:1]# % TO BE INITIATED AS VISIBLE TASK	15544300 351612827 15544400 321781213
54 15 55 15 56 15 57 15	5544300 5544400	% AVAĪLABLE , TASKVISIBLEF	=[33:1]# % TO BE INITIATED AS VISIBLE TASK	15544300 351612827 15544400 321781213 15544500 321781213
54 15 55 15 56 15 57 15 58 15	5544300 5544400 5544500	% AVAĪLABLE , TASKVISIBLEF , RUNDBSF	=[33:1]# % TO BE INITIATED AS VISIBLE TASK =[32:1]# % DBS INITIATED BY DMSOPEN	15544400 351612827 15544400 321781213 15544500 321781213 15544500 35 026 762
54 15 55 15 56 15 57 15 58 15 59 15	5544300 5544400	% AVAĪLABLE , TASKVISIBLEF	=[33:1]# % TO BE INITIATED AS VISIBLE TASK	15544400 321781213

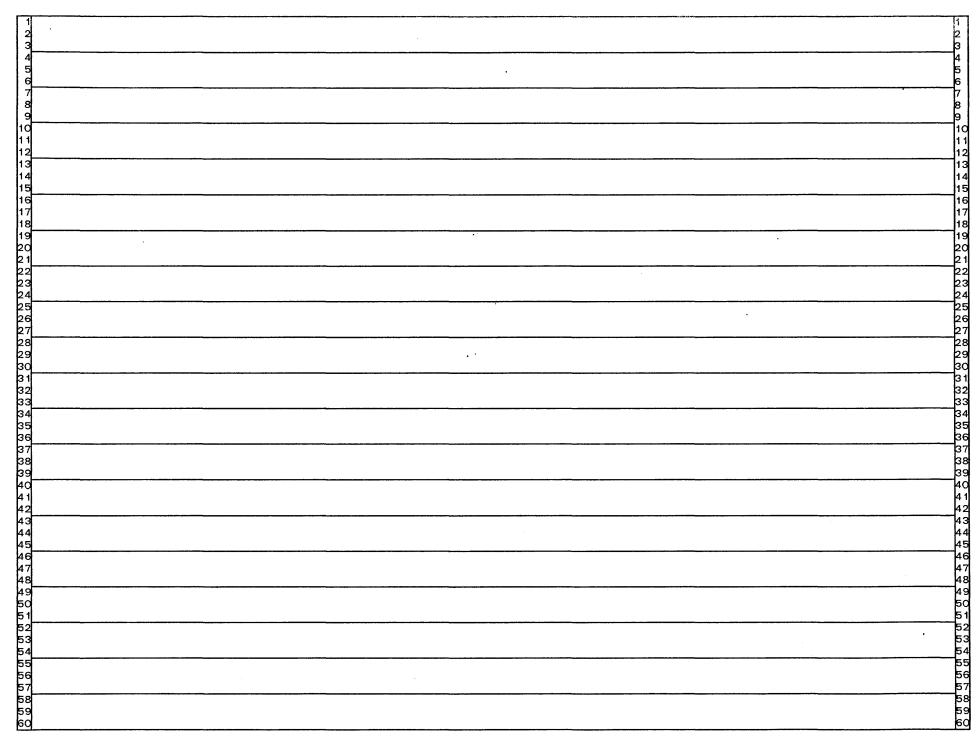
1	15544720	% THE FIELD OLAYFILELINKF IS SEARCHED % BY OLAYSCOUT UNDER OLAYINFOLOCK	15544720 34.016.398
	15544730		
3_	15544740	% (A BUZZ LOCK). THEREFORE	15544740 34.016.398
4 .	15544750	% BOJ & EOJ MUST OWN OLAYINFOLOCK	15544750 34.016.398
5 '	15544760	% AND PROCESSCHANGELOCK WHEN THEY % CHANGE THIS FIELD.	15544760 34.016.398
d ·	15544770	% CHANGE THIS FIELD.	15544770 34.016.398
7	15544800	%, AVAILABLE =[7:8]#	15544800 35.013.388
8	15545000	% PIB[TASKPARAMS] IS USED VARIOUSLY ACCORDING TO THE PARAMETERS BEING	15545000 31.170.674
	15545200	% SPECIFIED FOR THE TASK, THE MEANS OF THEIR SPECIFICATION, AND THE	
	15545400	% STAGES OF INITIALIZATION OF THE TASK:	15545400 31.071.002
- 1	15545600	% 1: A ZERO OPERAND MEANS THERE ARE NO PARAMETERS.	15545600 31.071.002
	15545800	% 2: AN ORDINARY TASK INITIATION VIA DELIVERY/INITIATEUSERTASK	15545800 31.071.002
_	15546000	% NOTES THE DISPLACEMENT INTO THE PARENT STACK AND THE NUMBER OF	15546000 31.071.002
1			15546200 31.071.002
	15546200		15546200 31.071.002
-	15546400	% SIMILAR ACTION IS TAKEN BY FORKCONTROLCARD FOR A ZIP.	15546400 31.071.002
	15546460	% 3: WITH A KLUDGE INSTALLED IN MARK 31.1, INITIATEUSERTASK NOTICES	15546460 35.003.072
	15546500	% ARRAY PARAMETERS FROM WFL OR FROM MCS TO SESSION OR TO FOREIGN % TASK AND BUILDS AN (MCP) OVERLAYABLE ARRAY IN TASKPARAMS TO	15546500 35.003.072
_	15546520		15546520 35.003.072
	15546530	PASS THE ARRAY BY VALUE. UNRAVEL RETURNS LENGTH AND TEXT	15546530 35.003.072
20	15546540	% OF THE ARRAY PARAMETER TO HOST SERVICES VIA AD-HOC ATTRIBUTES.	15546540 31.191.776
21	15546560	4: SINCE MARK 31.1, THERE HAS BEEN A FIELD DEFINE (PARAMDESCLINK)	15546560 35.003.072
22	15546570	% AND SOME SKELETAL CODE IN INITIATEUSERTASK FOR AN UNIMPLEMENTED	15546570 35.003.072
23	15546580	% FEATURE:	15546580 35.003.072
24	15546600	% IF THE USER SPECIFIES PARAMETERS VIA MUTATE, TASKPARAMS BECOMES	15546600 35.003.072
	15546800	% A MOM FOR AN (MCP) OVERLAYARIE ARRAY HOLDING HIS PARAMETER	15546800 31.071.002
26	15547000	VALUES AND A DINDINED-EDDMAT DESCRIPTION OF HIS DADAMETEDS	15547000 31.071.002
	15547200	% INITIATEUSERTASK AND/OR EXTERNALREFERENCE OF DOCTOR WILL CHECK	15547200 31.071.002
L	15547400	% INITIATEUSERTASK AND/OR EXTERNALREFERENCE OF DOCTOR WILL CHECK THAT THE SUPPLIED PARAMETERS FIT THE CALLED PROCEDURE. 5: IF A FORK INVOLVES PARAMETERS, THEY ARE COPIED INTO THE GETAREA MESSAGE ENQUEUED FOR ANABOLISM, WHO THEN USES THE SAME MEMORY	15546000 31.071.002 15546200 31.071.002 15546400 31.071.002 15546500 35.003.072 15546520 35.003.072 15546530 35.003.072 15546540 31.191.776 15546540 35.003.072 15546560 35.003.072 15546570 35.003.072 15546600 35.003.072 15547000 31.071.002 15547000 31.071.002 15547600 35.003.072
	15547600	5: IF A FORK INVOLVES PARAMETERS, THEY ARE COPIED INTO THE GETAREA	15547600 35.003.072
	15547800	% MESSAGE ENQUEUED FOR ANABOLISM, WHO THEN USES THE SAME MEMORY	15547800 33.003.072
	15548000	TO BUILD A PARAMETER ARRAY WITH MOM AT TASKPARAMS.	
		// DUILU A FARAMCIER ARRAI WITH MUM AT LADREARAMD. // G. IE EVTEDNALDEEDENICE ETHIC DADAMETERS ON THE CTACK (CTATE O)	15548000 31.071.002 15548200 35.003.072 15548250 35.003.072 15548300 35.003.072 15548450 35.003.072 15548450 35.003.072 15548500 35.003.072 15548500 35.003.072 15548600 35.003.072 15548600 35.003.072 15548600 35.003.072 15548700 35.003.072 15548700 35.003.072 15548700 35.003.072 15548700 35.003.072
	15548200	% 6: IF EXTERNALREFERENCE FINDS PARAMETERS ON THE STACK (STATE 2) % AND THE PARAMETERS MISMATCH THE EXTERNAL PROCEDURE BUT CAN BE	15549250 35.003.072
	15548250	% AND THE PARAMETERS MISMATCH THE EXTERNAL PROCEDURE BUT CAN BE	15548250 35.003.072
	15548300	COERCED, A PARAMETER ARRAY (GETAREA) IS BUILT WITH COERCION INSTRUCTIONS IN THE PARAMETER SLOTS. THIS CASE IS DISTINGISHED	15548300 35.003.072
	15548350	% INSTRUCTIONS IN THE PARAMETER SLOTS. THIS CASE IS DISTINGISHED	15548350 35.003.072
	15548400	FROM CASES 3-5 BY RETAINING NON-ZERO PARAMDISP IN PARAMINFO.	15548400 35.003.072
	15548450	% (IF COERCEABLE MISMATCH IS FOUND FROM STATE 3 OR 4, THE	15548450 35.003.072
	15548500	<pre>% EXISTING TASKPARAMS ARRAY IS ADJUSTED; NO NEW STATE ARISES.)</pre>	15548500 35.003.072
	15548550	7: THE FOLLOWING ACTIONS ARE TAKEN BY THE FIRST PART OF INITIATE	15548550 35.003.072
	15548600	<pre>% (WHEN A STACK NUMBER HAS BEEN OBTAINED): IF TASKPARAMS % CONTAINS A NON-ZERO PARAMDISP (STATE 2), TASKPARAMS IS CHANGED</pre>	15548600 35.003.072
4 1	15548650	CONTAINS A NON-ZERO PARAMDISP (STATE 2), TASKPARAMS IS CHANGED	15548650 35.003.072
42	15548700	% TO AN ARRAY (GETAREA) AND THE PARAMETERS ARE COPIED INTO IT	15548700 35.003.072
43	15548750	% FROM THE PARENT STACK. IF TASKPARAMS IS AN ARRAY AND THE	15548750 35.003.072
44	15548800	% PARAMINFO WORD HAS NON-ZERO PARAMDISP (STATE 6), THE PARAMETERS	15548800 35.003.072
45	15548850	% ARE COPIED FROM THE STACK INTO THE ARRAY, WITH ANY REQUIRED	15548850 35.003.072
46	15548900	% , ADJUSTMENTS.	15548900 35.003.072 15548950 35.003.072 15549000 35.003.072
1 1	15548950	" IF THERE ARE COPY-DESCRIPTOR PARAMETERS IN THE PARAMETER ARRAY,	15548950 35.003.072
1 1	15549000	% A COPY OF THE TASKPARAMS DESCRIPTOR IS PUT IN THE NEW	15549000 35.003.072
	15549050	% STACKVECTOR SLOT FOR SEARCHING.	15549050 35.003.072
	15549100	% FOR A SWAPJOB, AN APPENDIX TO THE ARRAY RETAINS THE OWNER STACK	
	15549150	% FOR EACH COPY DESCRIPTOR OR PSEUDOSTACK SIRW.	15549150 35.003.072
	15549400	% 8: AFTER THE SECOND PART OF INITIATE HAS ACQUIRED STACK SPACE, THE	15549400 35.003.072
	15549600	% APPROPRIATE WORDS ARE COPIED INTO THE NEW STACK BEING BUILT.	15549600 31.071.002
	15549800	UNLESS THERE ARE ARRAYS BY VALUE, THE PARAMETER ARRAY IS	15549800 31.071.002
	15550000	% DISCARDED AND PARAMINFO SAVED IN TASKPARAMS (FOR STATE 10).	15550000 35.003.072
1 1			15550200 21.071.002
	15550200	% IF ANY ARRAY IS BEING PASSED BY VALUE, AN EXTRA BLOCK IS PUT	15550200 31.071.002
m //	15550400	% INTO THE NEW STACK BETWEEN THE USER OUTER BLOCK AND THAT OF	15550400 31.071.002
	15550600	% EOJ, TO HOLD THE MOM(S).	15550600 31.071.002
58			
58 59	15550800 15551000	9: IF THERE IS STILL AN ARRAY AT BOJ TIME, NORMALBOJ SETS UP MOM DESCRIPTORS FOR ANY ARRAYS BEING PASSED BY VALUE AND COPIES	15549100 35.003.072 15549400 35.003.072 15549600 31.071.002 15550000 35.003.072 15550000 31.071.002 15550400 31.071.002 15550400 31.071.002 15550800 35.003.072 15550800 35.003.072 15551000 31.071.002

1 15551200	% THEIR CONTENTS FROM THE TASKPARAMS ARRAY. THE PARAMETER ARRAY	15551200 31.071.002
2 15551400	% IS THEN DISCAPDED AND DADAMINED SAVED IN TASKDADAMS	15551400 35 003 073
3 15551600	% 10: BY THE TIME THE USER PROGRAM IS ENTERED, TASKPARAMS IS AN	15551600 35.003.072
4 15551800	% OPERAND CONTAINING PARAMWORDS AND PARAMBLOCK.	15551800 31.071.002
5 15552000	A/	
6 15552200	N TOCOLL OF A DUMBY TOCOLD FOR CEARCUITIO AC CTACK	AFFERROOD OL 051 000
7 15552400	DADAMINEDY = 1# 9 DADAMINODOS	15552400 31.071.002
8 15552600	, PARAMINFOX = 1# % PARAMBLOCK/PARAMWORDS , PARAMLINKX = 2# % PARAMDESCLINK/PARAMLINK , PARAMFIXEDL = 3# % LINKS POINT HERE OR LATER	15552400 51.071.002
9 15552800	, FARAMLINAA – 2# % PARAMUESCLINA/PARAMLINA	15552600 51.071.002
	, PARAMFIAEUL = 3# % LINKS PUINI HERE UR LAIEK	15552800 31.0/1.002
10 15553000	% FIELDS IN SPIB[SN, IASKPARAMS] UR ARRAYSPIB[SN, IASKPARAMS, PARAMINFUX]	15553000 35.003.072
11 15553200	, PARAMDISP =[47:16]# % DISPLACEMENT IN PARENT SIK UF 151 PARAM	15553200 31.0/1.002
12 15553400	, PARAMBLOCK =[31:16]# % WIDTH OF EXTRA MOM-PARAMETER BLOCK	15553400 31.071.002
13 15553600	, PARAMWORDS = [15:16]# % NUMBER OF WORDS OF PARAMETERS	15553600 31.071.002
14 15553800	% FIELDS IN ARRAYSPIB(SN,TASKPARAMS,PARAMLINKX)	15553800 35.003.072
15 15554000	, PARAMDESCLINK =[31:16]# % INDEX OF PARAMETER "BINDINFO"	15554000 31.071.002
16 15554200	, PARAMLINK =[15:16]# % INDEX OF 1ST PARAMETER IMAGE	15554200 31.071.002
17 15554400	% PARAMLINK POINTS TO A STACK IMAGE OF PARAMBLOCK+PARAMWORDS WORDS.	15554400 31.071.002
18 15554600	## TOSCW FOR SEARCHING AS STACK PARAMINFOX FOR SEARCHING AS STACK	15554600 31.071.002
19 15554800	% ARE MOM SPECIFIERS, FOLLOWED BY PLACEHOLDERS FOR AN SCW. MSCW AND	15554800 31.071.002
20 15555000	% RCW FOR THE MOM BLOCK. THE PARAMETER IMAGE FOLLOWS THE BLOCK IMAGE.	15555000 31.071.002
21 15555200	% THE PARAMETER SLOT FOR ANY ARRAY-BY-VALUE IS A TAGBLASTED COPY	15555200 32.054.458
22 15555400	% RCW FOR THE MOM BLOCK. THE PARAMETER IMAGE FOLLOWS THE BLOCK IMAGE. % THE PARAMETER SLOT FOR ANY ARRAY-BY-VALUE IS A TAGBLASTED COPY % DESCRIPTOR, WHICH EVENTUALLY BECOMES A COPY OF THE LOCAL MOM. % WHEN PARAMETERS ARE ORIGINATED BY MUTATE, PARAMDESCLINK POINTS TO	15555400 32.054.458
23 15555600	% WHEN PARAMETERS ARE ORIGINATED BY MUTATE. PARAMOESCLINK POINTS TO	15555600 31.071.002
24 15555800	% WHEN PARAMETERS ARE ORIGINATED BY MUTATE, PARAMDESCLINK POINTS TO % A BINDINFO-FORMAT PARAMETER DESCRIPTION FOR THE PARAMETERS PRESENT. % FIELDS IN A MOM SPECIFIER IN ARRAYSPIB[SN,TASKPARAMS,*]	15555800 31.071.002
25 15556000	% FIFE DS IN A MOM SPECIFIER IN APPRISON TASKDADAMS *1	15556000 35 003 072
26 15556200	DOON! TNV = -[47-46]# % TNDEY DE 4CT WORD DE ADDAY VALUE	15556000 33.003.072
27 15556400	POONLEN = [31:16]# % INDEX OF 131 WORD OF ARRAI VALUE	15556400 31.071.002
28 15556600	DODOU INV = [15.16]# % ELMAIN OF ARRAI VALUE (WORDS)	15556600 35 002 072
	Y CODY SIOT HAS A TAG-DIASTED CODY DESCRIPTION WHOSE ADDRESS TO THE	13330000 33.003.012 4EEE6600 3E 003.070
	% CUPT SLUT HAS A TAG-BLASTED CUPT DESCRIPTION WHOSE ADDRESSE IS THE	1555620 35.003.072
30 15556640	6 INDEA INTO TASKPAKAMS OF THE CURKESPUNDING MUM SPECIFIER.	1555640 35.003.072
31 15556660	% FIELDS IN A CUERCIUM SPECIFIER IN ARRAYSPIBISM, IASKPARAMS, * J	1555660 35.003.072
32 15556680	, PCUERCIUNITYPE =[45: 2]# % CUERCIUN ACTIUN REQUIRED:	15556680 35.003.072
33 15556700	, PCUERCECUNSI = O# % CUPY THE COERCION SPECIFIER	15556700 35.003.072
34 15556720	, PCUERCECUPY = 1# % CUPY THE WORD AT PCOERCIONDISP	15556720 35.003.072
35 15556740	, PCUERCIONSZ =[42: 3]# % SZF VALUE FOR COERCED DESCRIPTOR	15556740 35.003.072
36 15556760	, PCOERCIONBITS =[39: 8]# % BITSPERSZ FOR COERCED DESCRIPTOR, OR O	15556760 35.003.072
37 15556780	, PCOERCIONDISP =[15:16]# % PARENT-STACK DISPLACEMENT OF PARAMETER	15556780 35.003.072
38 15556800	% FIELDS IN PIB[SURROGATEINFO]	15556800 31.170.674
39 15556900	, SURROGATESTKNRF =[47:SNSIZE]# % STACK LOCKING THE TASK	15556900 350591706
40 15557000	, SURROGATEF =[35:1]# % TASK ORIGINATED AT ANOTHER HOST	15557000 31.181.700
41 15557200	, RUNNINGEXTERNALF =[34:1]# % TASK RUNNING AT ANOTHER HOST	15557200 31.181.700
42 15557300	, TASKLOCKEDF =[33:1]# % HOSTSERVICES VS MCP LOCKOUT SWITCH	15557300 32.055.474
43 15557350	% WHEN PARAMETERS ARE UNIGINATED BY MUTATE, PARAMETERS PRESENT. % FIELDS IN A MOM SPECIFIER IN ARRAYSPIB[SN, TASKPARAMS,*] , PCONLINK = [47:16]# % INDEX OF 1ST WORD OF ARRAY VALUE , PCONLEN = [31:16]# % LENGTH OF ARRAY VALUE (WORDS) , PCOPYLINK = [15:16]# % RELATIVE DISPLACEMENT TO COPY PARAMETER % COPY SLOT HAS A TAG-BLASTED COPY DESCRIPTOR WHOSE ADDRESSF IS THE % INDEX INTO TASKPARAMS OF THE CORRESPONDING MOM SPECIFIER. % FIELDS IN A COERCION SPECIFIER IN ARRAYSPIB[SN, TASKPARAMS,*] , PCOERCIONTYPE = [45:2]# % COPRCION ACTION REQUIRED: , PCOERCECONST = O# % COPY THE WORD AT PCOERCIONDISP , PCOERCIONSZ = [42:3]# % SZF VALUE FOR COERCED DESCRIPTOR , PCOERCIONBITS = [39:8]# % BITSPERSZ FOR COERCED DESCRIPTOR, OR O , PCOERCIONDISP = [15:16]# % PARENT-STACK DISPLACEMENT OF PARAMETER % FIELDS IN PIB[SURROGATEINFO] , SURROGATESTKNRF = [47:SNSIZE]# % STACK LOCKING THE TASK , SURROGATEF = [35:1]# % TASK ORIGINATED AT ANOTHER HOST , RUNNINGEXTERNALF = [34:1]# % TASK ORIGINATED AT ANOTHER HOST , TASKLOCKEDF = [33:1]# % HOSTSERVICES VS MCP LOCKOUT SWITCH , EXTERNALSTATUSF = [32:8]# % STATUS OF AN EXTERNAL TASK , SURROGATEINDEXF = [11:SNSIZE]# % IF RUNNINGEXTERNALF, THIS IS THE % FIELDS IN WORD O OF ITINERARY NERCONAL PARAMETERS ARE DISPLACEMENT OF PARAMETER PIB VECTOR. % FIELDS IN WORD O OF ITINERARY ITINERARYINHERITEDF = [47:01]# % TRUE IF ITINERARY WAS INHERITED	15557350 32.077.694
44 15557600	. SURROGATEINDEXF =[11:SNSIZE]# % IF RUNNINGEXTERNALF. THIS IS THE	15557600 350591706
45 15558000	% INDEX INTO THE EXTERNAL PIB VECTOR	15558000 32,046,351
46 15558400	% FIELDS IN WORD O OF ITINERARY	15558400 32.044.304
47 15558450	. ITINFRARYINHERITEDE =[47:01]# % TRUE IF ITINFRARY WAS INHERITED	15558450 321741144
48 15558500	, ITINERARYINHERITEDF =[47:01]# % TRUE IF ITINERARY WAS INHERITED , ITINERARYLENGTHF =[15:16]# % LENGTH (IN BYTES) OF ITINERARY	15558500 321741144
49 15558506	% FIELDS IN PIB[USERCODEPRIV]	15558506 32.055.474
50 15558508	, UCODEANDMCSF =[1:2]#	15558508 32.055.474
51 15558510	, USERCODEPRIVF =[0:1]# % THIS USERCODE IS PRIVILEGED	15558510 32.077.694
52 15558512	, MCSABSTAININGF =[1:1]# % MCS ABSTAINS FROM MCS PRIVILEGE	15558512 32.077.694
1 I		
53 15558514	, HOSTSERVICESRINGBIT =[2:1]# % THIS BIT PROVIDES THE EQUIVALENT OF	15558514 340631689
54 15558516	% MCSABSTAININGF FOR HOST SERVICES. THE	15558516 32.055.474
55 15558518	% BIT IS DEFINED AS FOLLOWS:	15558518 32.055.474
56 15558520	% O = THIS STACK MAY GET SPECIAL	15558520 32.055.474
57 15558522	% PRIVILEGES WHILE IT IS	15558522 340631689
58 15558524	% RUNNING CODE FROM THE HOST	15558524 32.055.474
59 15558526	% SERVICES LIBRARY.	15558526 32.055.474
60 15558528	% 1 = THIS STACK CAN NOT GET THE	15558528 32.055.474

1	15558530		9	SPECIAL PRIVILEGES ASSOCIATED	15558530	340631689	[1]
2	15558532		9	WITH RUNNING HOSTSERVICES CODE.	15558532	32.055.474	b l
lзl	15558534		q	6 THIS BIT'S DEFAULT IS O. IT IS NOT	15558534	340631689	la l
	15558536			6 EXPLICITLY SET UP ANYWHERE: WE ASSUME	15558536		
	15558538			6 THAT UNLESS STATED OTHERWISE, ANYONE	15558538		E 1
							2
	15558540			6 IS ALLOWED TO PASS "IF		32.055.474	6
	15558542			6 HOSTSERVICESCALLING" TESTS IN THE MCP.		32.055.474	[7]
8	15558544	, HSSTATUSTURNEDOFF	=[3:1]# 9	6 FLAG TO AVOID SENDING STATUS MESSAGES	15558544	32.077.694	18
9	15558546		q	% WHILE RUNNING HOSTSERVICES CODE.	15558546	32.077.694	le l
	15558548			SET WHILE ON TOP ON USERS STACK	15558548		10
	15558549	. CHARGEREOF	=[4:1]#	V CE I WILLE ON TO THE COLING OFFICE	15558549		1,4
				/ NE ADE DUBLINO ON TOD OF KEVEDIO			1: 1
	15558552	, KEYEDIOCALLINGF		WE ARE RUNNING ON TOP OF KEYEDIO.		33.101.858	12
	15558554	, INHERITMCSSTATUSF		6 TRUE STOPS THIS TASK FROM INHERITING	15558554		13
14	15558556		9	% "MCSNESS" FROM IT'S PARENT WHEN	15558556	331051031	14
15	15558558		9	% INITIATED.	15558558	331051031	115
116	15558560	, USEDEFLTF	=[7:1]# 9	& USEDEFAULTCHARGE BIT SET FOR USER.	15558560	340621631	16
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1		WORKFILE [NOT NAMED]	5:04 PM TUESDAY, APRIL 9, 19	85
2 3				2
4 53621900	%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/	%%%%%%% 53621900 .	4
5 53622000	% FIXED PART OF FILE INFOR		% 53622000 .	वं
6 53622100	%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%		6
7 53622200	SELECTOR = FIBW[O]#		53622200 31.161.5	7
8 53622300	,FIBMSCW = FIBW[1]#	% (1,0)	53622300 .	8
9 53622400	FIBLOCK = FIB[2]#	% (1,1) ·	53622400 .	9
10 53622500	,RECORDSTATUS = FIB[3]#	% (1,2)	53622500 .	. 10
11 53622600	FILESTATUS = FIB[4]#	% (1,3)	53622600 .	1 ·
12 53622650	FILE STATUS(F) = F[4]#	% (1,3)	53622650 35041117	
13 53622700	FILESTATUSW = FIBW[4]#	% (1,3) (FOR NOTOP	· · · · · · · · · · · · · · · · · · ·	
14 53622800	TANKDATA1 = FIB[5]#	% (1,4)	53622800 .	14
15 53622900	,TANKDATA2 = FIB[6]#	% (1,5)	53622900 .	15
16 53623000	DISKBLOCK = FIB[7]#	% (1,6)	53623000 26.010.	1
17 53623100	,PAGESPEC = FIB[8]#	% (1,7)	53623100 26.010.	[1]
18 53623200	,IOINFO = FIB[9]#	% (1,8)	53623200 .	18
19 53623300	,LBLEQTN = FIBW[10]#	% (1,9)	53623300 .	
20 53623400	,IOADESC = FIBW[11]#	% (1,A)	53623400 .	20
21 53623500	,BUFDESC = FIBW[12]#	% (1,B)	53623500 .	<u> </u>
22 53623600	,SBUFDESC = FIBW[13]#	% (1,C) % (1,D)	53623600 24.000.2 53623700 23.001.0	132 176
23 53623700 24 53623800	<pre>,FMTBUFFDESC = FIBW[14]# ,FMTLOCK = FIB[15]#</pre>	% (1,D) % (1,E)	53623700 23.001.0 53623800 26.010.1	170 23
25 53623900	FILIOTIME = FIB[16]#	% (1,E) % (1,F)	53623800 28.010.	22
26 53624000	, PWRITES = FIBW[17]#	% (1,10)	53624000 .	2
27 53624100	,PWRITES - FIBW[17]# ,PREADS = FIBW[18]#	% (1,10) % (1,11)	53624000 .	Pr h-
28 53624200	,PWRITEN = FIBW[19]#	% (1,11) % (1,12)	53624200 .	
29 53624300	,PREADN = FIBW[20]#	% (1,12) % (1,13)	53624300 .	bo
30 53624400	,PSEEK = FIBW[21]#	% (1,14)	53624400 .	Bo
31 53624500	,PINITIATE = FIBW[22]#	% (1,15)	53624500 35.015.4	232 22 2676 23 27 28 26 27 28 29 30 30 31 31 35 31 35 31 35 32 35 33 36 34 37 36 47 47 47 48 47 49 47 40 47 40 47 41 47 42 47 42 47 43 47 44 47 45 47 46 47 47 48 47 48 47 49 48 48 48 48 48 48 48 48 48 48 48 48 48
32 53624600	,PSEARCH = FIBW[23]#	% (1,16)	53624600 .	32
33 53624700	,PLOCKER = FIBW[24]#	% (1,17)	53624700 .	33
34 53624800	,PRELEASE = FIBW[25]#	% (1,18)	53624800 .	34
35 53624900	,PMOVEOUT = FIBW[26]#	% (1,19)	53624900 26.010.	31 35
36 53625000	,PMOVEIN = FIBW[27]#	% (1,1A)	53625000 26.010.	31 36
37 53625100	,PWAIT = FIBW[28]#	% (1,1B)	53625100 26.010.	31 37
38 53625200	,PFLOAT = FIBW[29]#	% (1,1C)	53625200 26.010.	131 38
39 53625300	,PCWCONTROL = FIB[30]#	% (1,1D)	53625300 .	39
40 53625400	,RECOFF = FIB[31]#	% (1,1E)	53625400 32177119	98 40
41 53625500	,RECORDCOUNT = FIB[32]#	% (1,1F)	53625500 .	4
42 53625600	,BLOCKCOUNT = FIB[33]#	% (1,20)	53625600 .	42
43 53625700	,LOWER = FIB[34]#	% (1,21)	53625700 .	<u> </u>
44 53625800	,UPPER = FIB[35]#	% (1,22)	53625800 .	La. 14.
45 53625900 46 53625900	,LOCALMINREC = FIB[36]#	% (1,23)	53625900 26.010.	131 45
46 53626000	,LOCALMAXREC = FIB[37]#	% (1,24) % (4,25)	53626000 22.000.0)20 46)20
47 53626100	,FIBLOCAL1 = FIB[38]#	% (1,25) % (4,26)	53626100 22.000.0)20 (4)
48 53626200 49 53626300	,FIBLOCAL2 = FIB[39]#	% (1,26) % (1,27)	53626200 22.000.0 53626300 22.000.0	720 48
50 53626400	,FIBLOCAL3 = FIBW[40]# ,DISKHEADER = FIBW[41]#	% (1,27) % (1,28)		
51 53626500	, FIBEOF = FIB(41)#	% (1,28) % (1,29)	53626400 . 53626500 .	p.
52 53626550	,FIB_EOF(FIB) = FIB[42]#	% (1,29) % (1,29)	53626550 3504111	71
53 53626600	,ACTNUM = FIB[42]#	% (1,29) % (1,2A)	53626600 26.010.	34 24
54 53626700	,SBLOCKING = FIB[44]#	% (1,2A) % (1,2B)	53626600 26.010.	D
55 53626800	,SIOINFO = FIB[45]#	% (1,2C)	53626800 .	5.
56 53626900	,SOFFSET = FIB[46]#	% (1,20)	53626900 26.010.	131 56
57 53627000	CURRENTBLOCK = FIB[47]#	% (1,2E)	53627000 26.010.	131 5
58 53627100	FILEEVENT1 = FIBW[48]#	% (1,2F)	53627100 26.010.	31 55
59 53627200	FILEEVENT2 = FIBW[49]#	% (1,30)	53627200 26.010.	
60 53627300	,OUTPUTTRANS = FIBW[50]#	% (1,31)	53627300 26.010.	131 60

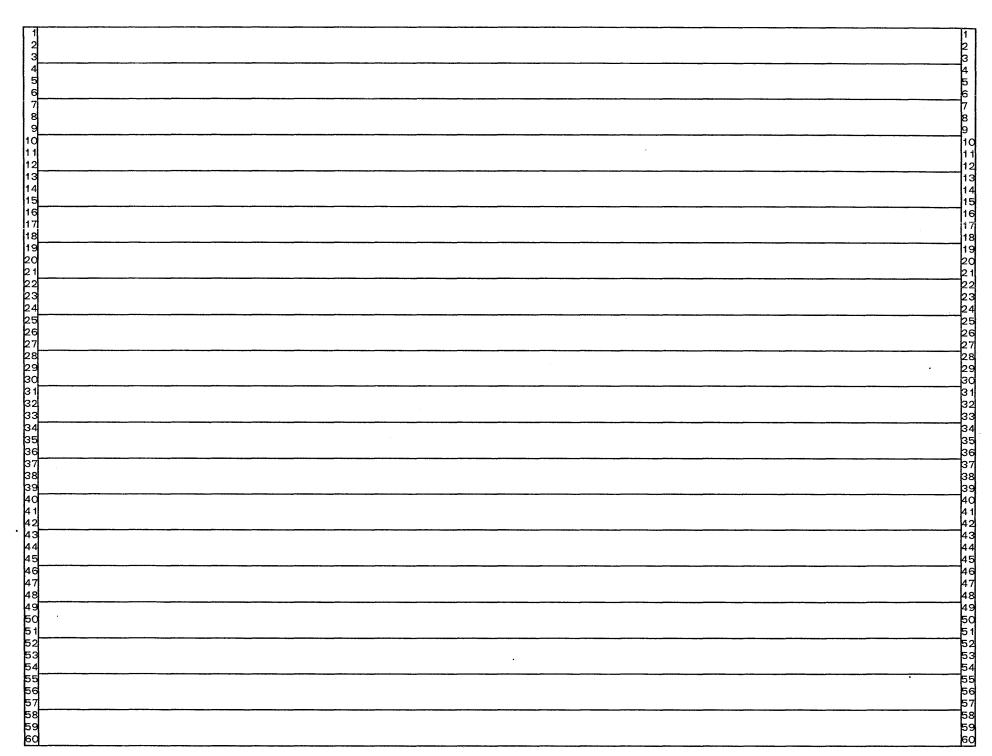
1 53627400	,INPUTTRANS = FIBW[51]# % (1,32)	53627400 26.010.131	1
2 53627500	USEROUTINES = FIBW[52]# % (1,33)	53627500 26.010.131	2
3 53627600	,FLOPPYMISC = FIB[53]# % (1.34)	53627600 31.018.136	2
4 53627700	FIBLOCKSNR = FIB[54]# % (1,35) FIBLOCK OWNERS SNR	53627700 31.018.136	4
5 53627800	,IOCB = FIBW[55]# % (1,36) IOCB DESCRIPTOR	53627800 31.036.239	5
6 53627850	LOGICALCOUNT = FIB[56]# % (1,37) ACTUAL I/O COUNT	53627850 31.192.787	6
7 53627880	LIBRARYINFO = FIB[57]# % (1,38) INDXIO & PORTS	53627880 32.073.641	7
8 53627885	PHYSICALIOCOUNT= FIB[58]# % (1,39) PHYSICAL I/O COUNT	53627885 33.003.091	k
9 53627888	,LOGINTERVALSTARTTIME=FIB[59]# % (1,3A) COUNTER FOR LOGINT	53627888 33.026.464	6
10 53627890		53627880 33.026.464	
11 53627892			
	BUFLINKS = FIB[61]# % (1,3C) BUF LINKAGE INFO	53627892 35.009.306	11.
12 53627894	,IOMOM = FIBW[62]# % (1,3D) MOM FOR IOAREA	53627894 35.009.306	
13 53627896	SIOMOM = FIBW[63]# % (1,3E) MOM FOR SIOAREA UNITNUMBERS = FIB[64]# % (1,3F) SIO/IO UNITNUMBERS INQ LIST DESC = FIBW[65]# % (1,4O) OLD INQ LIST	53627896 35.009.306	[13
14 53627898	,UNITNUMBERS = FIB[64]# % (1,3F) SIO/IO UNITNUMBERS		14
15 53627900		53627900 350721873	19
16 53627920	,INQ_LIST_ARRAY = FIB2W[65,*]# % (1,40)	53627920 350721873	16
17 53627930	,FABPLACE = 66 #	53627930 351012405	117
18 53627940	FAB_DESC = FIBW[66] # % (1,41) FILE ATTRIBUTES	53627940 351012405	18
19 53627950	/0	53627950 .	19
20 53628000	% LABEL-EQUATION BLOCK (LEB) %	53628000 .	ba
21 53628100	% SAME FORMAT ALSO USED IN LABEL TABLE AND FPB %	53628100 .	2. 2.
22 53628200	// SAME ORMAT ALSO USED IN LABLE ABLE AND THE // // // // // // // // // // // // //	53628200 .	
23 53628300	%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	53628300 .	K :
			K.
24 53628400	,LEBC = LEB[0]# % BASIC DATA: SIZE,KIND	53628400 35.006.200	
25 53628500	,LEBO(LEB) = LEB[O]#	53628500 35.006.200	12:
26 53628600	GEN1 = GEN_1(LEB)# % REEL, CYCLE, VERSION	53628600 35.023.628	25 26 27
27 53628650	,GEN_1(LEB) = LEB[1]#	53628650 35.023.628	
28 53628700	,GEN2 = GEN_2(LEB)# % DATE, SAVE FACTOR	53628700 350411173	25 25
29 53628750	,GEN_2(LEB) = LEB[2]#	53628750 350411173	29
30 53628800	DISK INFO AND MYUSE, OTHERUSES	53628800 35.006.200	js (
31 53628900	OPENTIME = LEB[4]# % TIME FILE OPEN	53628900 35.006.200	3
32 53629000	LEBDATA2 = LEB[5]# % ORIGINAL TANKDATA2.	53629000 35.006.200	
33 53629100	,ATTVALUE = LEB[6]#	53629100 35.006.200	33
34 53629150	DISKMISCINX = 7#	53629150 321761190	
35 53629200	.DISKMISC = LEB[DISKMISCINX]#	53629200 35.006.200	, S
36 53629400	TANKDATA3 = LEB[8]#	53629400 35.006.200	34 35 36
		53629500 35.006.200	3.
			片.
38 53629550	,LABATT(LEB) = LEB[9]#	53629550 35.006.200	3:
39 53629600	,FILEACCESS = LEB[10]#	53629600 35.006.200	
40 53629650	,FILEACC(LEB) = LEB[10]#	53629650 35.006.200	40
41 53629700	,FIRSTSN = LEB[11]#	53629700 35.006.200	4
42 53629750	,FOREIGNINFO = LEB[12]#	53629750 35.006.200	4:
43 53629780	,FAILUREREASON = LEB[13]#	53629780 32.122.892	4:
44 53629790	,LEBMISC = LEB[14]#	53629790 32.142.970	j 4.
45 53629818	LEBVALINX = 15#. % WORD OFFSET FROM THE BASE OF A LEB	53629818 340511164	4
46 53629820	% WHERE THE ATTRIBUTE VALIDITY BITS	53629820 340511164	4
47 53629822	% ARE LOCATED. THE ATTRIBUTE VALIDITY		4
48 53629824	% BITS OCCUPY WORDS 15 - 20 OF A LEB.	53629824 340511164	لما
49 53629826	70 51.3 00001 WORDS 10 20 61 A EEB.	53629826 340511164	
50 53629828	LEBVALIDITY(A) =	53629828 340511164	4: 4: 5:
	BOOLEAN(LEB[LEBVALINX + (A) DIV BITS_PER_WORD].		5
		53629830 340511164	P
52 53629832	[((BITS_PER_WORD - 1) - ((A) MOD BITS_PER_WORD)):1])#,	53629832 340511164	<u> </u>
53 53629834	% SELECTS THE ATTRIBUTE VALIDITY BIT	53629834 340511164	Þ
54 53629836	% FROM THE LEB_VALIDITY_MASK ARRAY	53629836 340511164	5
55 53629838	% WHICH CORRESPONDS TO THE ATTRIBUTE	53629838 340511164] 5
56 53629840	% IDENTIFIED BY THE ATTRIBUTE NUMBER	53629840 340511164	5
57 53629842	% A. BIT 47 OF WORD ZERO IS THE	53629842 340511164	5 5 5 5 5
58 53629844	% VALIDITY BIT FOR FILE ATTRIBUTE O.	53629844 340511164	5 5 6
59 53629846	% BIT O OF WORD ZERO IS THE VALIDITY	53629846 340511164	ls
60 53629848	% BIT FOR FILE ATTRIBUTE 47.	53629848 340511164	e le
200200.0	//		

| \$5829852 LEBVALIDITYLENGTH = BITSTOWORDS(226) F \$5829852 A0511164 \$5829852 A0511164 \$5829853 A0511164 \$5829854 A0511164 \$5829855 A0511164 \$5829856 A051164 \$5829856 A0511164 \$5829856 A051164 ---|
| \$ 58629854 |
| ### S3829856 ### VISED TO HOLD THE FILE ATTRIBUTE |
| ### S829986 ### VALIDITY BITS. AT LEAST 256 BITS. ### S829986 ### VALIDITY BITS. AT LEAST 256 BITS. ### S829986 ### S829986 ### VALIDITY BITS. AT LEAST 256 BITS. ### S829986 ### S8299 |
| \$ 5829886 |
| \$9829860 |
| ### S8629864 ### FOR EVERY POSSIBLE FILE ATTRIBUTE \$5829862 30511164 ### S8629866 ### S8629866 ### S8629867 **TIMELIMIT = LEB[LEB/LEN]# |
| ## 5829866 |
| \$3629866 LEBVAL |
| 10 53629867 |
| 10 53629867 |
| 11 53629868 |
| 12 53629870 |
| 13 58629874 |
| 14 53629876 |
| 30 33033000 , ECED(TED) - ECD[ECD0.TAD/ONES(ECD3.TED]/]# 33033000 . |
| 30 33033000 , ECED(TED) - ECD[ECD0.TAD/ONES(ECD3.TED]/]# 33033000 . |
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| 30 33033000 , ECED(TED) - ECD[ECD0.TAD/ONES(ECD3.TED]/]# 33033000 . |
| 30 33033000 , ECED(TED) - ECD[ECD0.TAD/ONES(ECD3.TED]/]# 33033000 . |
| 30 33033000 , ECED(TED) - ECD[ECD0.TAD/ONES(ECD3.TED]/]# 33033000 . |
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| 30 33033000 , ECED(TED) - ECD[ECD0.TAD/ONES(ECD3.TED]/]# 33030000 . |
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| 30 33033000 , ECED(TED) - ECD[ECD0.TAD/ONES(ECD3.TED]/]# 33030000 . |
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| 30 33033000 , ECED(TED) - ECD[ECD0.TAD/ONES(ECD30.TED]/]# 33033000 . |
| 51 53633050 ,LEEB1(LEB,FLD) = LEB[LEB0(LEB).FXD + ONES(LEB0(LEB).[LEBSB:FLD])] # 53633050 35.015.442
52 53633100 ,LEBB(FLD) = BOOLEAN(LEBC.[LEBSB-FLD:1])# 53633100 . |
| 52 53633100 ,LEBB(FLD) = BOOLEAN(LEBC.[LEBSB-FLD:1])# 53633100 . |
| P4 33033100 ,LEDB(TLV) ~ DUULEAN(LEDS.[LEDSD=TLV:1])# 33033100 . |
| EQ FOCOMEO (LED FLD) - DOUBLANGEDO (LED) (LEDED FLD.41)" |
| 53 53633150 ,LEBB1(LEB,FLD) = BOOLEAN(LEBO(LEB).[LEBSB-FLD:1])# 53633150 35.028.834 |
| 54 53633200 ,LEBPTR8(FLD) = POINTER(LEB[LEEB(FLD)],8)# 53633200 31.092.398 |
| 55 53633250 ,LEBPTR(LEB, FLD) = POINTER(LEB[LEEB1(LEB, FLD)], 8) # 53633250 350411173 |
| 56 53633300 ,FIDPTR(A) = POINTER(A[A[O].FXD+ONÈS(A[O].OPTMASK)],8)# 53633300 31.092.398 |
| 57 53633400 ,FORMSPTR(A) = POINTER(A[A[A[O].FXD+ONES(A[O].[LEBSB:FRMS])]],8) # 53633400 31.092.398 |
| 7 0000000 , I ONG |
| 58 53633500 ,FORMS = LEBB(FRMS)# 53633500 . |
| FOLIOCOCCO FORMATIDES LEFT/FRIC)" |
| 59 53633600 ,FORMSINDEX= LEEB(FRMS)# |

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1 1		, GUARDINDEX=	LEEB(SECGUARD)#	53633800	20.000.105	
12	53633900	,NAMEINDEX =	LEEB(NAMEDPF)#	53633900	22.000.083	1 2 3
3	53633905	,NAMEDB =	LEBB(NAMEDPF)#	53633905	22.000.083	B
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56	56
58 58	58 58
60 60	96 96



	WORKFILE [NOT NAMED] 5:04 P	M TUESDAY, APRIL 9, 1985	
53686800	DEFINE	53686800 340521258	
53687000		53687000 340521258	
53687100	% IN RECORDSTATUS (RSLT)	53687100 340521258	
53687200	RECSIZEF = LRDUNITSTRANSFERREDF#	53687200 340521258	
53687300	, LRDUNITNBRF = [24:8]# % UNIT # RETURNED BY DIO , QUALIFICATIONF=[24:8]# % FOR DATACOM FILES	53687300 340521258	
53687400	, QUALIFICATIONF=[24:8]# % FOR DATACOM FILES	53687400 340521258	
53687500	% IN LRDERRORF	53687500 340521258	
53688250	, DELDUPRECF = LRDUNDEFINEDERRORF# % REDEFINITIONS FOR RESULT	53688250 340521258	
53688300	, DATAERRORF = LRDDESCRIPTORERRORF# % DESCR. GIVEN TO USERS	53688300 340521258	
53688350	% IN RECORDSTATUS (RSLT)	53688350 351512740	
53688400	% SPECIAL FLAGS USED BY SEEKDISK WHEN BAD WRITE IS DETECTED	53688400 351512740	
53688450	% RECSIZEF =LRDUNITSTRANSFERREDF	53688450 351512740	
53688500	% DUPLCOPYERRORF =[27:16]# % WHICH COPIES HAD WRITE ERRORS	53688500 351512740	
53688550	% DUPLREADRSLTF =[11:5]# % READ RSLT AFTR BAD WRITE	53688550 351512740	
53688600	% DUPLBADWRITEFLAGF =[6:7]# % FLAG BAD WRITE	53688600 351512740	
53688700	% FILESTATUS	53688700 26.010.131	
53688800	, LEVELF =[47:8]# % FILE DESCRIPTION LEVEL.	53688800 31.061.240	
53688900	, LEVELF =[47:8]# % FILE DESCRIPTION LEVEL. , LANGUAGEF =[39:8]# % LANGUAGE WHERE FILE DECLARED.	53688900 31.061.240	
53690000	% SEE ENUMERATION UNDER LANGUAGETYPE , UPDATEREADFORBOTTOMBUFFERF=[31:1]# % 1 IF UPDATE READ TO DO	53690000 32.054.458	
53690300	, UPDATEREADFORBOTTOMBUFFERF=[31:1]# % 1 IF UPDATE READ TO DO	53690300 31.137.464	
53690400	% FOR BOTTOM BUFFER.	53690400 31.137.464	
53690500	, REELSWITCHINGF=[30:1]# % 1 IF OUTPUT REELSWITCH	53690500 31.061.240	
53690600	, DMSIOBIT =[29:1]# % 1 IF DMS, DIRECT I/O.	53690600 31.061.240	
53690700	, DIRECTBIT =[28:1]# % 1 IF DIRECT FILE. , WRITELABELSF=[27:1]# % TRUE IFF NEED TO WRITE EOF LABELS. , FILEINCLOSEF=[26:1]# % 1 IF FILE IN CLOSE PROCEDURE.	53690700 31.061.240	
53690800	, WRITELABELSF=[27:1]# % TRUE IFF NEED TO WRITE EOF LABELS.	53690800 331121095	
53690900	, FILEINCLOSEF=[26:1]# % 1 IF FILE IN CLOSE PROCEDURE.	53690900 31.061.240	
53691000	R5500LINK =[25·1]# % OLD FORTRAN LINKED (FILETYPE=6)	53691000 31.061.240	
53691100	. EOFB =[24:1]# % 1 IF END OF FILE. NO MORE REELS	53691100 31.061.240	
53691200	, SWAPFIBF =[23:1]# % 1 IF FILE IN SWAP SPACE. , INTSIZEF =[22:3]# % STRING DD SIZE IN INTMODES.	53691200 31.061.240	
53691300	, INTSIZEF =[22:3]# % STRING DD SIZE IN INTMODES.	53691300 31.061.240	
53691400	, INTSPERWRDF = [19:4]# % INTMODES PER WORD. , EXTSPERWRDF = [15:4]# % EXTMODES PER WORD. , BUFFASSGND = [11:8]# % BUFFERS ASSIGNED. ELLESTATES = [3:3]# % LAST I/O ACTION	53691400 31.061.240	
53691500	, EXTSPERWRDF =[15:4]# % EXTMODES PER WORD.	53691500 31.061.240	
53691600	, BUFFASSGND =[11:8]# % BUFFERS ASSIGNED.	53691600 31.061.240	
53691700	, FILESTATEF =[3:3]# % LAST I/O ACTION.	53691700 31.061.240	
53691800	, NEWBUFFERF =[O:1]# % 1 IF MUST WAIT ON BUFFER.	53691800 31.061.240	
53691900	% TANKDATA1	53691900 26.010.131	
53692000	, BLKD =[47:1]# % 1 IF BLOCKED FILE.	53692000 31.061.240	
53692100	, EXTMODEF =[46:3]# % PHYSICAL RECORD MODE.	53692100 31.061.240	
53692200	, INTMODEF =[43:3]# % INTMODE ATTRIBUTE.	53692200 31.061.240	
53692300	% O = SINGLE (48-BIT).	53692300 26.010.131	
53692400	% 2 = HEX (4-BIT).	53692400 26.010.131	
53692500	% 3 = BCL (6-BIT).	53692500 26.010.131	
53692600	% 4 = EBCDIC (8-BIT).	53692600 26.010.131	
53692700	% 5 = ASCII (8-BIT).	53692700 26.010.131	
53692800	% 6 = BINARY (48-BIT). , CHAREC =[40:1]# % 1 IF CHAR-ORIENTED DATA MOVES. % FILEORGF =[39:40] % DISKHEADER[2]-S FIELD.	53692800 26.010.131	
53692900	, CHAREC =[40:1]# % 1 IF CHAR-ORIENTED DATA MOVES.	53692900 31.061.240	
53693000	% FILEORGF =[39:40] % DISKHEADER[2]-S FIELD.	53693000 31.061.240	
53693100	, RCDUNTS =[39:1]# % UNITS ATTRIBUTE.	53693100 31.061.240	
53693200	% O = WORDS.	53693200 26.010.131	
53693300	% 1 = CHARACTERS.	53693300 26.010.131	
53693400	, RCRDTYPE =[38:4]# % RECORD FORMAT (FILETYPE ATT):	53693400 31.061.240	
53693500	% O = "F" - FIXED LENGTH.	53693500 26.010.131	
53693600	% 1 = "D" - VARIABLE LENGTH. SIZE IN DECIMAL	53693600 26.010.131	
53693700	% IN FIRST FOUR CHARACTERS.	53693700 26.010.131	
53693800	% 2 = "V" - VARIABLE LENGTH. SIZE IN BINARY	53693800 26.010.131	
53693900	% IN FIRST TWO CHARACTERS.	53693900 26.010.131	
	** : :		

1 53694100	% EXPLICITELY IN I/O STATEMENT. % 4 = "I" - VARIABLE LENGTH. SIZE IN RECORD % AT FIXED LOCATION (SIZE ATTRIBUTES). % 5 = "L" - VARIABLE LENGTH. XALGOL LINKED. % 6 = "Z" - VARIABLE LENGTH. FORTRAN LINKED. % 7 = DEPENDANT SPECIFICATION. FIXED UP	53694100 26.010.131	1
2 53694200	% 4 = "I" - VARIABLE LENGTH. SIZE IN RECORD	53694200 26.010.131	12
3 53694300	% AT FIXED LOCATION (SIZE ATTRIBUTES).	53694300 26.010.131	
4 53694400	% 5 = "L" - VARIABLE LENGTH. XALGOL LINKED.	53694400 26.010.131	4
5 53694500	% 6 = "Z" - VARIABLE LENGTH. FORTRAN LINKED.	53694500 26.010.131	5
6 53694600	% 7 = DEPENDANT SPECIFICATION. FIXED UP	53694600 26.010.131	6
7 53694700	% AT OPEN.	53694700 26.010.131	7
8 53694800	% 8 = DEPENDANT SPECIFICATION. DONT CHANGE	53694800 26.010.131	18
9 53694900	% INTMODE.	53694900 26.010.131	8 9
10 53695000	. SIZEMODE =[34:3]# % SIZEMODE ATTRIBUTE.	53695000 31.061.240	10
11 53695100	. SIZEOFF =[31:16]# % SIZEOFFSET ATTRIBUTE.	53695100 31.061.240	111
12 53695200	. SIZESZ =[15:16]# % SIZE2 ATTRIBUTE.	53695200 31,061,240	12 13
13 53695300	% TANKDATA2	53695300 26.010.131	13
14 53695400	. BLOCKSIZEF =[47:16]# % PHYSICAL BLOCKSIZE	53695400 340521258	114
15 53695500	MINRECSIZEE =[31:16]# % PHYSICAL MINRECSIZE	53695500 350441252	115
16 53695600	MAXRECSIZEF =[15:16]# % PHYSICAL MAXRECSIZE	53695600 340521258	16
17 53695700	% DISKBLOCK	53695700 26 010 131	1,5
18 53695800	SEGPERRIKE =[47:12]# % SEGMENTS PER RINCK	53695800 31 061 240	1,7
19 53695900	DECEDENCE = [35:46]# 9 DECEDED DED BLOCK	53695900 34 009 255	
20 53695915	, REGILABLANI - 1003.10]# // RECORDS FER BLUCK. RINADVIDCE = 104.21# // CONTAINS SELECTED [0.2] RINADV IDC	53695945 34 009 255	h'a
	DANIDATION -[13.3]" / CUNIMAINS SELECTUR.[2.3], BINART IPC	52695925 24 009 255	K.
	# EXPLICITELY IN I/O STATEMENT. # 4 = "I" - VARIABLE LENGTH. SIZE IN RECORD # AT FIXED LOCATION (SIZE ATTRIBUTES). # 5 = "L" - VARIABLE LENGTH. XALGOL LINKED. # 6 = "Z" - VARIABLE LENGTH. XALGOL LINKED. # 7 = DEPENDANT SPECIFICATION. FIXED UP # AT OPEN. # 8 = DEPENDANT SPECIFICATION. DONT CHANGE # INTMODE. * SIZEMODE = [34:3]#	53695935 35 005 449	14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 31 32 33 34 35 36 37 38 39 39 40
	, STACKSEARCHT = [15:1]# % FUR PURIS	53695935 35.005.118	22
23 53695950	PONILINGED = [14:1]# % LINKED IU PURI LIBRARY	53595950 32.081./15	123
24 53696000	, DONTUNLOCKF =[13:1]# % FOR MULTI-ENTRY FIBSTACK CALLS	53696000 31.141.240	24
25 53696100	, TANKINGF =[12:2]# % TANKING VALUE	53696100 31.061.240	125
26 53696200	, NORESWAITF =[10:1]# % DON-T WAIT FOR RESOURCES	53696200 31.061.240	26
27 53696300	, INPUTEVENTUSEDF=[9:1]# % 1 IF INPUTEVENT HAS BEEN USED	53696300 350721873	27
28 53696400	, MPS_USERF =[8:1]# % FIB USED MPS OUTPUT ROUTER	53696400 350772066	128
29 53696500	, DUPLCOPIES =[7:4]# % NUMBER OF COPIES MINUS ONE.	53696500 31.061.240	29
30 53696550	, ISAMLINKEDF =[3:1]# % LINKED TO KEYEDIO LIBRARY.	53696550 32.035.228	
31 53696600	, UPDATEIOF =[2:1]# % 1 IF DOING UPDATE I/O.	53696600 31.061.240	31
32 53696700	, UPDATEFILEF =[1:1]# % 1 IF UPDATE I/O DISK FILE.	53696700 31.061.240	32
33 53696800	, DUPLFILEF =[0:1]# % 1 IF DUPLICATED DISK FILE.	53696800 31.061.240	33
34 53696900	% PAGESPEC (PRINTER FILES LOGICAL PAGE SPECIFICATIONS)	53696900 26.010.131	34
35 53697000	, FIBCH00ZEF =[47:12]#	53697000 31.061.240	35
36 53697100	. PGSPFCTNCODEF=[47:4]# % CHOOZE.FUNCTIONCODEF.	53697100 31.061.240	36
37 53697200	, PGSPAFTERF =[43:1]# % CHOOZE.AFTERF.	53697200 31.061.240	3.
38 53697300	, PGSPACTIONF =[42:6]# % CHOOZE.ACTIONF.	53697300 31 061 240	38
39 53697400	, PGSKEYEDF =[36:1]# % CHOOZE.KEYEDF.	53697400 31 061 240	30
40 53697500	% PAGESPEC (PRINTER FILES LOGICAL PAGE SPECIFICATIONS) , FIBCHOOZEF = [47:12]# , PGSPFCTNCODEF=[47:4]# % CHOOZE.FUNCTIONCODEF. , PGSPAFTERF = [43:1]# % CHOOZE.AFTERF. , PGSPACTIONF = [42:6]# % CHOOZE.ACTIONF. , PGSKEYEDF = [36:1]# % CHOOZE.KEYEDF. , BUFFERD = [35:1]# % 1 IF MORE THAN ONE BUFFER. , LTDLINEF = [34:1]# % 1 IF MAXLINES COUNTING. , LTDPUNCHF = [33:1]# % 1 IF MAXCARDS COUNTING. , PAGESPECF = [32:1]# % 1 IF LOGICAL PAGE COUNTING. , PAGECOUNTF = [31:16]# % PAGE ATTRIBUTE. , PAGESIZEF = [15:8]# % PAGESIZE ATTRIBUTE. , LINECOUNTF = [7:8]# % LINENUM ATTRIBUTE. % IOINFO	53697500 31 061 240	
41 53697600	, LTDLINEF =[34:1]# % 1 IF MAXLINES COUNTING.	53697600 31.061.240	
42 53697700	TODINCHE	53697700 31.001.240 53697700 31.061.240	C.
43 53697800	, LTDPUNCHF =[33:1]# % 1 IF MAXCARDS COUNTING.	53037700 31.001.240 53607800 34.064.340	4 42 43 44 45 46 47 48
	, PAGESPECF =[32:1]# % 1 IF LOGICAL PAGE COUNTING.	53537000 31.001.240 53697000 34.064.040	
44 53697900	, PAGECUNTF =[31:16]# % PAGE ATTRIBUTE.	53597900 31.051.240	r.:
45 53698000	, PAGESIZEF =[15:8]# % PAGESIZE ATTRIBUTE.	53698000 31.061.240	
46 53698100	, LINECOUNTF =[7:8]# % LINENUM ATTRIBUTE.	53698100 31.061.240	1.5
47 53698200	% IOINFO	53698200 26.010.131	14 3
48 53698300	, SKLTNIOCW =[47:28]# % SKELETON IOCW (EXCEPT FOR DATACOM),	53698300 340521258	48
49 53698350	% SEE IUSTANDARDFIELD ETC.	53698350 340521258	μς
50 53698400	, LASTSTATIONF=[47:24]# % DATACOM LASTSTATION ATTRIBUTE.	53698400 31.061.240	5 0
51 53698850	% =[23:4]# % AVAILABLE FOR DATACOM	53698850 340521258	5: 5: 5: 5: 5: 5: 5:
52 53698900	, RDCHECKF =[19:1]# % READCHECK ATTRIBUTE.	53698900 31.061.240	5:
53 53699000	, BACKUPSWITCHF=[18:1]# % 1 IF SIOINFO IN IOINFO SLOT.	53699000 31.061.240	5:
54 53699100	, OVERROWF =[17:1]# % 1 IF BADLY BLOCKED DISK I/O.	53699100 31.061.240	5.
55 53699200	, BACKUPF =[16:1]# % 1 IF CREATING BACKUP FILE.	53699200 31.061.240	5!
56 53699300 %		53699300 35.027.799	is
57 53699400	, UNITYPP =[5:6]# % ASSIGNED UNIT TYPE.	53699400 340521258	5
58 53699500	% FIBEOF (DISK EOF CALCUALTIONS).	53699500 26.010.131	5
59 53699600	% EOFU =[47:20] % # OF VALID UNITS IN LAST BLOCK.	53699600 31.061.240	59
60 53699700	% EOFV =[27:28] % SEGMENT WHERE LAST BLOCK BEGINS	53699700 31.061.240	58 59
11	,		

1 53699800	% ACTNUM (MAINTAINED BY IODISKADDRESS). , ROWINVALIDF = [47:1]# % (IN)VALIDITY BIT. , ROWUNITNUMF = [46:LUB(14)]# % LOGICAL UNIT NUMBER. , ROWBASEADDRESSF = [32:33]# % DISK ADDRESS IN BINARY.	53699800	26.010.131	1
2 53699850	, ROWINVALIDF =[47:1]# % (IN)VALIDITY BIT.	53699850	350541499	2
3 53699900	, ROWUNITNUMF =[46:LUB(14)]# % LOGICAL UNIT NUMBER.	53699900	350541499	<u></u> j3
4 53700100	, ROWBASEADDRESSF =[32:33]# % DISK ADDRESS IN BINARY.	53700100	350541499	4
5 53700200	% FLOPPYMISC	53700200	31.031.208	5
6 53700300	, NORMALIOLENGTHF=[47:20]# % NORMAL IO AREADESC LENGTH	53700300	331121095	6
7 53700400	, CUREXTENTF =[27:20]# % TOTAL EXTENT USED	53700400	31.061.240	7
8 53700500	, CHARSPERSECTORF=[7:8]# % FOR FLOPPY TEST OP	53700500	331121095	8
9 53700510	% HCPARTNERMISC % = FLOPPYMISC	53700510	340581503	9
10 53700520	% WRITEPARTNER =[11:04] % SAME HCFILES IOPARTNER FIELDS AS	53700520	340581503	10
11 53700530	<pre>% READPARTNER =[07:04] % THOSE IN IOCD[DIRECTIOCW], BUT</pre>	53700530	340581503	111
12 53700540	<pre>% READPARTNERVALID =[02:01] % HOLDS HUBMAP-LEVEL RESTRICTIONS;</pre>	53700540	340581503	12
13 53700550	% WRITEPARTNERVALID =[01:01] % PARTNERMISC IS SET-UP IN FIBOPEN.	53700550	340581503	13
14 53700556	, % BUFLINKS - THIS FIELD CONTAINS THE NUMBER OF BUFFERS AND	53700556	35.009.306	114
15 53700558	% CURRENT "TOP" BUFFER FOR THE IOMOM & SIOMOM	53700558	35.009.306	15
16 53700560	% BUFFER POOLS. THE BOTTOM 24 BITS ARE USED BY	53700560	35.009.306	16
17 53700562	% IOMOM, TOP 24 BY SIOMOM. IT IS VERY IMPORTANT TO	53700562	35.009.306	17 18
18 53700564	% NOTE THAT THE FIELDS FOR IOMOM AND SIOMOM ARE	53700564	35.009.306	18
19 53700566	, ROWBASEADDRESSF =[32:33]# % DISK ADDRESS IN BINARY. % FLOPPYMISC , NORMALIOLENGTHF=[47:20]# % NORMAL IO AREADESC LENGTH , CUREXTENTF =[27:20]# % TOTAL EXTENT USED , CHARSPERSECTORF=[7:8]# % FOR FLOPPY TEST OP % HCPARTNERMISC % = FLOPPYMISC % WRITEPARTNER =[11:04] % SAME HCFILES IOPARTNER FIELDS AS % READPARTNER =[07:04] % THOSE IN IOCD[DIRECTIOCW], BUT % READPARTNERVALID =[02:01] % HOLDS HUBMAP-LEVEL RESTRICTIONS; % WRITEPARTNERVALID =[01:01] % PARTNERMISC IS SET-UP IN FIBOPEN. , % BUFLINKS - THIS FIELD CONTAINS THE NUMBER OF BUFFERS AND % CURRENT "TOP" BUFFER FOR THE IOMOM & SIOMOM % BUFFER POOLS. THE BOTTOM 24 BITS ARE USED BY % IOMOM, TOP 24 BY SIOMOM. IT IS VERY IMPORTANT TO % NOTE THAT THE FIELDS FOR IOMOM AND SIOMOM ARE % IDENTICAL IN FORMAT. THIS IS NECESSARY BECAUSE	53700566	35.009.306	
20 53700568	% THE TWO HALVES OF THE WORD ARE SWAPPED WHENEVER	53700568	35.009.306	20
21 53700570	% IDENTICAL IN FORMAT. THIS IS NECESSARY BECAUSE % THE TWO HALVES OF THE WORD ARE SWAPPED WHENEVER % IOMOM AND SIOMOM ARE SWAPPED (DONE FOR BACKUP	53700570	35.009.306	21
22 53700572	% FILES)	53700572	35.009.306	22
23 53700576	, BACKUP FLAG FIELD = [47:01]# % USED TO MARK THE SIO AREA	53700576	35.028.847	19 20 21 22 23
24 53700578	% OF THE BUFFER - THIS HELPS	53700578	35.028.847	
25 53700580	% WHEN ANALYZING DUMPS	53700580	35,028.847	25 26 27
26 53700582	. BUFFER CONTROL FIELD = [23:48]# % FIELD USED WHEN SWAPPING	53700582	35.009.306	26
27 53700584	% IOMOM AND SIOMOM	53700584	35.009.306	27
28 53700586	IOMOM AND SIOMOM ARE SWAPPED (DONE FOR BACKUP) Water Wat	53700586	35.009.306	29 29 30
29 53700588	. POPULATION FIELD = [15:08]# % # OF BUFFS IN POOL	53700588	35.009.306	29
30 53700590	STOMOM POPULATION FIFLD	53700590	35 009 306	30
31 53700592	= [39:08]# % # OF BUFFS IN STOMOM POOL	53700592	35,009,306	- 31
32 53700594	%	53700594	340521258	31 32 33 34 35 36 37 38
33 53700595		53700595	35.028.847	33
34 53700596	% UNITNUMBERS - CONTAINS THE LOGICAL UNIT NUMBER FOR THIS FILE % (EXCEPT FOR DISK FILES WHERE IT CONTAINS THE	53700596		—[32
35 53700598	% (EXCEPT FOR DISK FILES WHERE IT CONTAINS THE	53700598	35.027.799	35
36 53700600	% DISKFILEHEADER INDEX). "LUORHDRBITS" OF THE BOTTOM	53700600	350431237	36
37 53700602	% 24 BITS OF THE WORD CONTAIN THE FIELD WHICH IS	53700602	35.027.799	37
38 53700604	% IS REFERENCED TO OBTAIN THE UNIT NUMBER. •	53700604	35.027.799	38
39 53700606	% WHEN IOINFO AND SIOINFO ARE SWAPPED, THIS WORD IS	53700606	35.027.799	30
40 53700608	% ROTATED (SIMILARLY TO BUFLINKS) AND THE SIG	53700608		— 40
41 53700610	% UNIT NUMBER IS RETURNED WHEN UNITORHEADERINDEXF	53700610	35.027.799	4
42 53700612	% IS ACCESSED. RE-ROTATION WOULD RETURN THE UNIT	53700612	35.027.799	42
43 53700614		53700614	35.027.799	43
44 53700616	% NUMBER SAVED IN THE TOP HALF OF THE WORD TO ITS % ORIGINAL POSITION IN THE BOTTOM HALF OF THE WORD. , LUORHDRBITS = MAX(HEADERBITS, LUBMIN)# % AVAILABLE = [47:(24-LUORHDRBITS)] , SIO_UNITORHEADERINDEXF = [39:LUORHDRBITS]# % AVAILABLE = [23:(24-LUORHDRBITS)] , UNITORHEADERINDEXF = [15:LUORHDRBITS]# % E N D F I B F I E L D S	53700616	35.027.799	- L2
45 53700617	, LUORHDRBITS = MAX(HEADERBITS.LUBMIN)#	53700617	350431237	
46 53700618	% AVAILABLE = [47:(24-LUORHDRBITS)]	53700618	350431237	[2
47 53700618	, SIO_UNITORHEADERINDEXF= [39:LUORHDRBITS]#	53700619	350431237	[·
48 53700620	, 510_00110011EADERTINDEAT = [03.L004FIDEDIT[0]]	53700619	350431237	[]
49 53700621	% AVAĪLABLE = [23:(24-LUORHDRBITS)] , UNITORHEADERINDEXF = [15:LUORHDRBITS]#	53700621	350431237	44 45 46 47 48
L -l	% E N D F I B F I E L D S	53700621		L
50 53700623 51 53700624	70 END III III EDS	53700623 53700624	35.027.799 35.027.799	Ĕ,
52 53700624		53700624	35.027.799	—≝,
53 53700628		53700628	35.027.799	Ε.
54 53700628 54 53700640	% L E B F I E L D S	53700628	35.027.799	Ę,
	/ FIELUS	53700640		[2,
55 53700660	EVD -[47.6]# % ETVED LENGTH OF LED		340521258	5
56 53700700	, FXD =[47:5]# % FIXED LENGTH OF LEB.	53700700	340521258	2
57 53700800	, OPTMASK =[LEBSB:TITEL]#% VARIABLE LENGTH PARTS, ALSO USES	53700800	340521258	p;
58 53700850	% NEXT BIT, SO USED BITS ARE [42:18]	53700850	321761190	50 52 52 54 55 56 57 58 58
59 53700900	% (CANNOT USE) = 42:1,	53700900	321761190	b,
60 53701000	% (INTNAME) = 41:1,	53701000	321761190	ю

1 53701100		
1 11 20/01/100	% (KINDLIST) = 40:1,	53701100 321761190
2 53701200	% (FORMMESSAGE)= 39:1.	53701200 321761190
3 53701300	% (GUARDFILE) = 38:1,	53701300 321761190
4 53701400	% (PACKNAME) = 37:1,	53701400 321761190
5 53701500	% (SERIALNO) = 36:1,	53701500 321761190
6 53701600	% (PRINTERCTL) = 35:1.	53701600 35.015.442
7 53701700	% (PRINTERCTL2) = 34:1,	53701700 35.015.442
8 53701800	% (EIOLONGSTAT)= 33:1,	53701800 35.015.442
9 53701900	% AVAILABLE = 32:1.	53701900 35.015.442
	% (PSEUDONAME) = 31:1,	
10 53702000		53702000 321761190
11 53702100	% (PSEUDOFAM) = 30:1,	53702100 321761190
12 53702200	% AVAILABLE = 29:1,	53702200 35.015.442
13 53702300	% AVAILABLE = 28:1,	53702300 35.015.442
14 53702400	% (HOSTNAEM) = 27:1,	E0702400 00:018:442
1 1	/o (NOSINAEM) = 27:1,	53702400 321761190
15 53702500		53702500 321761190
16 53702700	% (TITEL) = 25:1, % NOT IN OPTMASK, BUT USED	53702700 321761190
17 53702800	. OPTIONALF =[24:1]# % OPTIONAL ATTRIBUTE	53702800 31.078.398
i i	DVDAGGE FOR All W STATE DVDAGG TABLETON	50702000 01.070.000
18 53702900	, BYPASSF =[23:1]# % FILE BYPASS INDICATOR	53702900 31.078.398
19 53703000	% AVAILABLE = 28:1, % (HOSTNAEM) = 27:1, % (ISAMKEYS) = 26:1, % (TITEL) = 25:1, % NOT IN OPTMASK, BUT USED . OPTIONALF = [24:1]# % OPTIONAL ATTRIBUTE , BYPASSF = [23:1]# % FILE BYPASS INDICATOR , LEBOFFIBF = [22:1]# % TRUE IF THERE IS A FIB . FPRTCTD = [21:1]#	53703000 31.078.398
20 53703100	, FPRTCTD =[21:1]#	53703100 31.078.398
21 53703200	, LPARITY =[20:1]# % PARITY (1 IS NON-STANDARD).	53703200 340521258
		55705200 540521258
22 53703300		
23 53703400	% VALUE OF ATTRIBUTE (GIVEN	53703400 31.155.541
24 53703500	% BELOW) IS LEBC.DENSITYQ-1.	53703500 31.155.541
25 53703600	% O = HIGH (800).	53703600 26.010.131
26 53703700	% 1 = MEDIUM (556).	53703700 26.010.131
27 53703800	% 2 = LOW (200).	53703800 26.010.131
28 53703900	% 3 = SUPER (1600).	53703900 26.010.131
1 1		
29 53704000	% 4 = (6250)	53704000 31.155.541
30 53704100	, LABELTYPES =[16:1]# % 1 IF LABELTYPE IS VALID. , LABELTYPEL =[15:4]# % LABELTYPE ATTRIBUTE. % LEBC LONGE	53704100 340521258
31 53704200	, LABELTYPEL =[15:4]# % LABELTYPE ATTRIBUTE.	53704200 340521258
32 53704300	% LEBC LCNTRL	53704300 26.010.131
1 1	70 2220	50704000 20.010.101
33 53704400	% O = STANDARD. O = B6500 USASI.	53704400 26.010.131
34 53704500		
35 53704600	% 2 = B5500 STANDARD.	53704600 26.010.131
36 53704700	% 2 = B5500 STANDARD. % 3 = OMITTEDEOF. 3 = SYSTEM STANDARD.	53704700 26.010.131
	% 3 - UMITTEDEUF. 3 - 3131EM STANDARD.	33704700 26.010.131
37 53704800	% 4 = B3500 USASI.	53704800 26.010.131
38 53704900	% 5 = B3500 STANDARD. % 6 = BACKUP.	53704900 26.010.131
39 53705000	% 6 = RACKUP	53705000 26.010.131
40 53705100	% 7 = LIBRARY MAINTENANCE.	53705100 26.010.131
HO 33/03/00	/o / = LIDKAK! MAINIENANCE.	33773170 20.010.131
1 1		50707000 00 010 151
41 53705200	% 8 = LOAD CONTROL.	53705200 26.010.131
8 1	% 8 = LOAD CONTROL. % 10 = B5500 BACKUP.	53705200 26.010.131 53705300 26.010.131
41 53705200 42 53705300	% 10 = B5500 BACKUP.	
41 53705200 42 53705300 43 53705400	% 11 = B5500 LIBRARY.	53705400 26.010.131
41 53705200 42 53705300 43 53705400 44 53705500	% 11 = B5500 LIBRARY.	53705400 26.010.131
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131
41 53705200 42 53705300 43 53705400 44 53705500	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID =[11:1]# % 1 IF EXTMODE IS SPECIFIED.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID =[11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML =[10:3]# % EXTMODE ATTRIBUTE.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID =[11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML =[10:3]# % EXTMODE ATTRIBUTE. , PTYPEL =[7:8]#	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53705900 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3]# % EXTMODE ATTRIBUTE. , PTYPEL = [7:8]# , PTYPECODEF = [7:3]#	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705900 31.061.240 53706000 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3]# % EXTMODE ATTRIBUTE. , PTYPEL = [7:8]# , PTYPECODEF = [7:3]#	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705900 31.061.240 53706000 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3]# % EXTMODE ATTRIBUTE. , PTYPEL = [7:8]# , PTYPECODEF = [7:3]# , PTYPEF = [4:5]#	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53706000 31.061.240 53706100 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3]# % EXTMODE ATTRIBUTE. , PTYPEL = [7:8]# , PTYPECODEF = [7:3]# , PTYPEF = [4:5]# % GEN1 (LEB WORD)	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705900 31.061.240 53706000 31.061.240 53706100 31.061.240 53706200 26.010.131
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706300	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1] # % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3] # % EXTMODE ATTRIBUTE. , PTYPEL = [7:8] # , PTYPECODEF = [7:3] # , PTYPEF = [4:5] # % GEN1 (LEB WORD) , LABLEV = [47:9] # % LABEL LEVEL.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705900 31.061.240 53706000 31.061.240 53706100 31.061.240 53706200 26.010.131 53706300 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706300 53 53706400	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1] # % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3] # % EXTMODE ATTRIBUTE. , PTYPEL = [7:8] # , PTYPECODEF = [7:3] # , PTYPEF = [4:5] # % GEN1 (LEB WORD) , LABLEV = [47:9] # % LABEL LEVEL. , CYCLES = [38:1] # % 1 IF GENEALOGY IS SPECIFIED.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53705900 31.061.240 53706000 31.061.240 53706100 31.061.240 53706200 26.010.131 53706300 31.061.240 53706400 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706300	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1] # % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3] # % EXTMODE ATTRIBUTE. , PTYPEL = [7:8] # , PTYPECODEF = [7:3] # , PTYPEF = [4:5] # % GEN1 (LEB WORD) , LABLEV = [47:9] # % LABEL LEVEL. , CYCLES = [38:1] # % 1 IF GENEALOGY IS SPECIFIED.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705900 31.061.240 53706000 31.061.240 53706100 31.061.240 53706200 26.010.131 53706300 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706300 53 53706400 54 53706500	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1] # % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3] # % EXTMODE ATTRIBUTE. , PTYPEL = [7:8] # , PTYPECODEF=[7:3] # , PTYPEF = [4:5] # % GEN1 (LEB WORD) , LABLEV = [47:9] # % LABEL LEVEL. , CYCLES = [38:1] # % 1 IF GENEALOGY IS SPECIFIED. , GENEALOGYF = [37:22] # % (CYCLE + VERSION).	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53705900 31.061.240 53706000 31.061.240 53706200 26.010.131 53706300 31.061.240 53706400 31.061.240 53706500 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706300 53 53706400 54 53706500 55 53706600	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1] # % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3] # % EXTMODE ATTRIBUTE. , PTYPEL = [7:8] # , PTYPECODEF=[7:3] # , PTYPEF = [4:5] # % GEN1 (LEB WORD) , LABLEV = [47:9] # % LABEL LEVEL. , CYCLES = [38:1] # % 1 IF GENEALOGY IS SPECIFIED. , GENEALOGYF = [37:22] # % (CYCLE + VERSION). , CYCLE = [37:14] # % CYCLE ATTRIBUTE.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53705900 31.061.240 53706000 31.061.240 53706200 26.010.131 53706300 31.061.240 53706400 31.061.240 53706500 31.061.240 53706500 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706400 53 53706400 54 53706600 55 53706600 56 53706700	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1] # % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3] # % EXTMODE ATTRIBUTE. , PTYPEL = [7:8] # , PTYPECODEF = [7:3] # , PTYPEF = [4:5] # % GEN1 (LEB WORD) , LABLEV = [47:9] # % LABEL LEVEL. , CYCLES = [38:1] # % 1 IF GENEALOGY IS SPECIFIED. , GENEALOGYF = [37:22] # % (CYCLE + VERSION). , CYCLE = [37:14] # % CYCLE ATTRIBUTE. , GENVERSN = [23:8] # % VERSION ATTRIBUTE.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53705900 31.061.240 53706000 31.061.240 53706200 26.010.131 53706300 31.061.240 53706400 31.061.240 53706500 31.061.240 53706500 31.061.240 53706600 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706300 53 53706400 54 53706500 55 53706600	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3]# % EXTMODE ATTRIBUTE. , PTYPEL = [7:8]# , PTYPECODEF=[7:3]# , PTYPEF = [4:5]# % GEN1 (LEB WORD) , LABLEV = [47:9]# % LABEL LEVEL. , CYCLES = [38:1]# % 1 IF GENEALOGY IS SPECIFIED. , GENEALOGYF = [37:22]# % (CYCLE + VERSION). , CYCLE = [37:14]# % CYCLE ATTRIBUTE. , GENVERSN = [23:8]# % VERSION ATTRIBUTE. , REELS = [15:1]# % 1 IF REEL NUMBER IS SPECIFIED.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53705900 31.061.240 53706000 31.061.240 53706200 26.010.131 53706300 31.061.240 53706400 31.061.240 53706500 31.061.240 53706500 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706300 53 53706400 54 53706500 55 53706600 56 53706700 57 53706800	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3]# % EXTMODE ATTRIBUTE. , PTYPEL = [7:8]# , PTYPECODEF=[7:3]# , PTYPEF = [4:5]# % GEN1 (LEB WORD) , LABLEV = [47:9]# % LABEL LEVEL. , CYCLES = [38:1]# % 1 IF GENEALOGY IS SPECIFIED. , GENEALOGYF = [37:22]# % (CYCLE + VERSION). , CYCLE = [37:14]# % CYCLE ATTRIBUTE. , GENVERSN = [23:8]# % VERSION ATTRIBUTE. , REELS = [15:1]# % 1 IF REEL NUMBER IS SPECIFIED.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53706000 31.061.240 53706100 31.061.240 53706200 26.010.131 53706300 31.061.240 53706400 31.061.240 53706500 31.061.240 53706500 31.061.240 53706600 31.061.240 53706700 31.061.240 53706800 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706300 53 53706400 54 53706500 55 53706600 56 53706700 57 53706800 58 53706900	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3]# % EXTMODE ATTRIBUTE. , PTYPEL = [7:8]# , PTYPECODEF=[7:3]# , PTYPEF = [4:5]# % GEN1 (LEB WORD) , LABLEV = [47:9]# % LABEL LEVEL. , CYCLES = [38:1]# % 1 IF GENEALOGY IS SPECIFIED. , GENEALOGYF = [37:22]# % (CYCLE + VERSION). , CYCLE = [37:14]# % CYCLE ATTRIBUTE. , GENVERSN = [23:8]# % VERSION ATTRIBUTE. , REELS = [15:1]# % 1 IF REEL NUMBER IS SPECIFIED. , REELS = [15:1]# % REEL ATTRIBUTE.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53706000 31.061.240 53706100 31.061.240 53706200 26.010.131 53706300 31.061.240 53706400 31.061.240 53706500 31.061.240 53706600 31.061.240 53706600 31.061.240 53706700 31.061.240 53706800 31.061.240 53706800 31.061.240
41 53705200 42 53705300 43 53705400 44 53705500 45 53705600 46 53705700 47 53705800 48 53705900 49 53706000 50 53706100 51 53706200 52 53706300 53 53706400 54 53706500 55 53706600 56 53706700 57 53706800	% 11 = B5500 LIBRARY. % 12 = NON-STANDARD USASI. % 13 = USERDEFINED. , EXTVALID = [11:1]# % 1 IF EXTMODE IS SPECIFIED. , EXTFORML = [10:3]# % EXTMODE ATTRIBUTE. , PTYPEL = [7:8]# , PTYPECODEF=[7:3]# , PTYPEF = [4:5]# % GEN1 (LEB WORD) , LABLEV = [47:9]# % LABEL LEVEL. , CYCLES = [38:1]# % 1 IF GENEALOGY IS SPECIFIED. , GENEALOGYF = [37:22]# % (CYCLE + VERSION). , CYCLE = [37:14]# % CYCLE ATTRIBUTE. , GENVERSN = [23:8]# % VERSION ATTRIBUTE. , REELS = [15:1]# % 1 IF REEL NUMBER IS SPECIFIED.	53705400 26.010.131 53705500 26.010.131 53705600 26.010.131 53705700 31.061.240 53705800 31.061.240 53706000 31.061.240 53706100 31.061.240 53706200 26.010.131 53706300 31.061.240 53706400 31.061.240 53706500 31.061.240 53706500 31.061.240 53706600 31.061.240 53706700 31.061.240 53706800 31.061.240

1 53707100	, CRTNSITEIDF =[45:14]#	% SYSTEM SERIAL NUMBER. % GENERATION ATTRIBUTE. % SAVEFACTOR ATTRIBUTE. % CREATION DATE.	53707100 35.011.316
2 53707200	, GENERATIONF =[31:4]#	% GENERATION ATTRIBUTE.	53707200 31.061.240 53707300 31.061.240
3 53707300	, SAVFACTOR =[27:11]#	% SAVEFACTOR ATTRIBUTE.	53707300 31.061.240
4 53707400	, CRTNDATE =[16:17]#	% CREATION DATE.	53707400 31.061.240
5 53707500	% DSKS (LEB WORD)		53707500 26.010.131
6 53707600	, DIRECTIONF = [47:1]#	% DIRECTION ATTRIBUTE.	53707600 31.061.240
7 53707700	, SINGLEPACKF =[46:1]#	% SINGLEPACK ATTRIBUTE.	53707700 31.078.398
8 53707800	, USECATALOGF =[45:1]#	% USECATALOG ATTRIBUTE.	53707800 31.061.240
9 53707900	, SENSITIVEF =[44:1]#	% DIRECTION ATTRIBUTE. % SINGLEPACK ATTRIBUTE. % USECATALOG ATTRIBUTE. % USECATALOG ATTRIBUTE.	53707900 31.061.240
10 53708000	, DRCTRYF =[43:1]#	% SENSITIVEDATA ATTRIBUTE. % 1 IF GOES INTO DIRECTORY. % CYLINDERMODE ATTRIBUTE. % FLEXIBLE ATTRIBUTE. % SIZEVISIBLE SIZE BIAS	53708000 31.061.240
11 53708100	, CYLMODEF =[42:1]#	% CYLINDERMODE ATTRIBUTE.	53708100 31.078.398
12 53708200	, FLEXIBLEF =[41:1]#	% FIEXTRIE ATTRIBUTE	53708200 31.061.240
13 53708300	, SIZEVISBIASF=[40:3]#	Z SIZEVISIRIE SIZE RIAS	53708300 350942344
14 53708400	, OTHERUSEF =[37:2]#	01227101244 0124 01710	53708400 31.061.240
15 53708500	, MYUSEF =[35:2]#	MANICE ATTRIBUTE	53708500 31.061.240
16 53708600	, EXCLUSIVEF =[33:1]#	FYCHISTVE ATTRIBUTE	53708600 31.078.398
17 53708700	, INTERCHGEF =[32:1]#	% ENGLOSIVE ATTRIBUTE.	53708000 31.078.398
18 53708800	FILENCEE -[32.1]#	% INTERCHANGE ATTRIBUTE.	53708700 31.078.336 E3708800 34.003.434
19 53708900	, FILEUSEF =[31:2]#	// TILEUSE ATTRIBUTE.	53708800 31.092.424
	, NUMAREAS =[29:10]#	% AREAS ATTRIBUTE.	53708900 31.061.240
20 53709000	, AREASIZE =[19:20]#	% SIZEVISIBLE SIZE BIAS % MYUSE ATTRIBUTE. % EXCLUSIVE ATTRIBUTE. % INTERCHANGE ATTRIBUTE. % FILEUSE ATTRIBUTE. % AREAS ATTRIBUTE. % AREAS ATTRIBUTE.	53709000 31.061.240
21 53709100	% DISKMISC (LEB WORD)	V FILEODOMITATION ATTENDED	53709100 26.010.131
22 53709200	, LFILEORGANIZF=[47:3]#	% FILEURGANIZATION ATTRIBUTE	53709200 350391118
23 53709400	. LEXTENTF = [44:17]#	% AREASIZE ATTRIBUTE. % FILEORGANIZATION ATTRIBUTE % EXTENT OF DISKETTE FILE % FOR RESERVE % 1 IF UPDATEFILE IS VALID. % UPDATEFILE ATTRIBUTE. % DUPLICATED ATTRIBUTE. % FAMILYINDEX ATTRIBUTE. % WRITECHECK ATTRIBUTE % AVAILABLE % FILEKIND ATTRIBUTE. % BUFFERS ATTRIBUTE. % ACTUAL KIND FOR PRINTER/PUNCH % ***** AVAILABLE *****. % NEWFILE ATTRIBUTE. % BLANK ATTRIBUTE. % BLANK ATTRIBUTE. % ***** AVAILABLE *****.	53708100 31.078.398 53708200 31.061.240 53708300 350942344 53708500 31.061.240 53708500 31.061.240 53708600 31.078.398 53708000 31.078.398 53708900 31.078.398 53708900 31.061.240 53709000 31.061.240 53709100 26.010.131 53709200 350391118 53709500 31.061.240 53709600 31.061.240 53709900 31.061.240 53709900 31.061.240 53709900 31.061.240 53709900 31.061.240 53709900 31.061.240 53709900 31.061.240 53709900 31.061.240 53710200 26.010.131 53710200 26.010.131 53710300 31.061.240 53710300 31.061.240 53710300 31.061.240 53710300 31.061.240 53710500 34.061.240 53710500 34.061.240 53710500 34.061.240 53710500 34.061.240 53710500 34.061.240 53710500 34.061.240 53710500 350571579 53710600 32.048.381 53710650 31.061.240 53710700 31.061.240 53710700 31.061.240 53710900 350571579 53710800 350571579 53710800 350571579 53710850 350571579 53710950 351122546 53710960 350762030 53711000 31.061.240 53711000 31.061.240
24 53709500	, LEXCLUSIVECANF=[27:1]#	% FOR RESERVE	53709500 31.061.240
25 53709600	, LUPDATEIOVF =[26:1]#	% 1 IF UPDATEFILE IS VALID.	53709600 31.061.240
26 53709700	, LUPDATEIOF =[25:1]#	% UPDATEFILE ATTRIBUTE.	53709700 31.061.240
27 53709800	, LDUPLFILEF =[24:1]#	% DUPLICATED ATTRIBUTE.	53709800 31.061.240
28 53709900	, LFAMILYINDEX=[23:8]#	% FAMILYINDEX ATTRIBUTE.	53709900 31.061.240
29 53709950	, LWRITECHECKF=[15:1]#	% WRITECHECK ATTRIBUTE	53709950 350391118
30 53710000	% =[14:7]#	% AVAILABLE	53710000 350391118
31 53710100	, LFILEKIND =[7:8]#	% FILEKIND ATTRIBUTE.	53710100 31.061.240
32 53710200	% TANKDATA3 (LEB WORD)		53710200 26.010.131
33 53710300	, BUFFREQSTD =[47:8]#	% BUFFERS ATTRIBUTE.	53710300 31.061.240
34 53710350	, BKUPKINDF =[39:6]#	% ACTUAL KIND FOR PRINTER/PUNCH	53710350 31.061.240
35 53710400	% **NOT USED**=[33:1]#	% **** AVAILABLE ****	53710400 350571579
36 53710450	, NEWFILEF =[32:1]#	% NEWELLE ATTRIBUTE.	53710450 350571579
37 53710500	, BLANKF =[31:1]#	% BLANK ATTRIBUTE	53710500 34,006,198
38 53710550	% **NOT USED**=[30:1]#	% **** AVATIARIF ****	53710550 350571579
39 53710600	, COBOL74LOCKF=[29:1]#	CLOSED WITH CORDIZA LOCK	53710600 32.048.381
40 53710650	, COBOL74LOCKF=[29:1]# , OPT =[28:1]#	% ***** AVAILABLE ****. % CLOSED WITH COBOL74 LOCK % 1 IF NON-PRESENT OPTIONAL FILE. % ATTERR ATTRIBUTE. % ATTYPE ATTRIBUTE. % SIZE FIELD IS CURRENTLY INVISIBLE % ~(VALID ONLY AFTER SETUPFIB) % SIZEVISIBLE ATTRIBUTE. % **** AVAILABLE **** DECLARES TRANSLATE MODE	53710600 32.048.381
41 53710700	, ATTERRF =[27:1]#	% I II NUNTERESENI UPITUNAL FILE. V attend attninite	53710700 31.001.240 53710700 31.061.340
1 1 1 10 100	, ATTERRF =[27:1]# , ATTYPEF =[26:8]#	% ATTUDE ATTRIBUTE	53710700 31.061.240
42 53710750	, ATTYPEF =[26:8]#	% ALLITE ALIKIBULE.	53710750 32.141.948
43 53710800	, SIZE_INVISF =[18:1]#	% SIVE LIEFD TO COKKENITA INATOTREE	53710800 350571579
44 53710850	CIDENTSIDLES 118 11"	% ~(VALID UNLY AFIER SETUPFIB)	53710850 350571579
45 53710900	, SIZEVISIBLEF=[17:1]#	% SIZEVISIBLE ATTRIBUTE.	53710900 350571579
46 53710950	% **NOT USED**=[16:1]#	% **** AVAILABLE *****	53710950 351122546
47 53710960	% INDICATES USER EXPLICITLY	DECLARES TRANSLATE MODE % TRANSLATING ATTRIBUTE. % TRANSLATE ATTRIBUTE. % CARRIAGECONTROL ATTRIBUTE.	53710960 350762030
48 53711000	, SOFTTRANSF =[15:1]#	% TRANSLATING ATTRIBUTE.	53711000 31.061.240
49 53711050	, TRANSLATEF =[14:3]#	% TRANSLATE ATTRIBUTE.	53711050 31.061.240
50 53711100	, CRIGECNTRLF =[11:2]#	% CARRIAGECONTROL ATTRIBUTE.	
51 53711150	, 001111020001 [11:1]#	NO TEN 1400 I KINTER CODE:	53711150 32.142.970
52 53711200		% FORTRAN PRINTER CODE.	53711200 32.142.970
53 53711250	, CHECKPOINTF =[8:1]#	% 1 IF ENTERED UNDER CP DIRECTORY	53711250 31.061.240
54 53711300		% 1 IF KIND WAS ZERO.	53711300 31.061.240
55 53711350		% 1 IF GIVEN ONE EOF ERROR MSG.	53711350 31.061.240
56 53711400		%	53711400 33.101.837
57 53711450		% BLOCKSTRUCURE VALIDITY BIT	53711450 32.142.970
58 53711500		% BLOCKSTRUCTURE ATTRIBUTE	53711500 32.142.970
59 53712000	% LABELATT (LEB WORD)	p ====================================	53711150 32.142.970 53711200 32.142.970 53711250 31.061.240 53711350 31.061.240 53711400 33.1061.240 53711400 33.101.837 53711450 32.142.970 53711500 32.142.970 53712000 26.010.131 53712050 331521321
60 53712050		% TRUE IFF THE USER SET THE FAMILYNAME	53712050 331521321
25 20	, occount and Littlement [47.1]	S THE THE OSER SET THE TANTETRANE	55, 12000 00 102 102 1

S			
Reserve Fig. Rese	: I	. LABELTYP =[46:3]# % ASSIGNED LABEL TYPE.	53712100 31.061.240
Reserve Fig. Rese	l I	% O = USASI LABEL.	53712200 26.010.131
Reserve Fig. Rese		% 1 = COBOL UNLABELED (REELSWITCH).	53712300 26.010.131
Reserve Fig. Rese	- t	% 2 = NO TAPEMARK BETWEEN LABELS.	53712400 26.010.131
Reserve Fig. Rese	5 53712500	% 3 = UNLABELED MULTI/FILE REELS (EOF).	53712500 26.010.131
Reserve Fig. Rese	6 53712550	, ACTUAL PRINTERKINDF =[43:4]# % ACTUAL PRINTERKIND SET BY NIP	53712550 35.006.200
Reserve Fig. Rese	7 53712600	, SECTYPEBITF =[37:1]# % 1 IF SECTYPE EXPLICITELY SET.	53712600 31.061.240
Reserve Fig. Rese	8 53712700	, SECUSEBITF =[36:1]# % 1 IF SECUSE EXPLICITELY SET.	53712700 31.061.240
Reserve Fig. Rese	9 53712800	, SECTYPEF =[35:2]# % SECURITYTYPE ATTRIBUTE.	53712800 31.061.240
Reserve Fig. Rese	10 53712900	, SECUSEF =[33:2]# % SECURITYUSE ATTRIBUTE.	53712900 31.061.240
Reserve Fig. Rese	11 53712950	% =[31:3]# % AVAILABLE	53712950 331121095
Reserve Fig. Rese	I 1 '	. USEINDEXF = 28:81# % USEROUTINES INDEX.	53713000 31.061.240
Reserve Fig. Rese		. LABELUSEF =[20:1]# % 1 IF LABEL USEROUTINES PRESENT.	53713100 31.061.240
Reserve Fig. Rese		ERRUSEF =[19:1]# % 1 IF ERROR USEROUTINES PRESENT.	53713200 31.061.240
Reserve Fig. Rese	1 1	% =[18:2]# % AVATIABLE	53713250 331121095
Reserve Fig. Rese	1	USERSIZE =[16:4]# % NUMBER OF USER LABELS.	53713300 31.061.240
Reserve Fig. Rese	3 I	IRLEGID =[12:1]# % 1 WHEN FINISHED LAREL FOLIATION	53713400 31 061 240
Reserve Fig. Rese	1 1	% = [11:4]# % AVAITABLE TABLE TABLE	53713410 331121095
Reserve Fig. Rese		FDE =[7.9] # 9 FILE DEGILATION FIELD =SECURITY INFO	53713420 33 101 837
Reserve Fig. Rese	1 1	, INC. —[7.0] # % ITEL REGULATION TILLD —SCOOKITT INFO // MATMI V LICED END TEMBORDADY ETLEC // MATMI V LICED END TEMBORDADY ETLEC	53713440 33 101 827
Reserve Fig. Rese		% MAINLI USED FOR IEMFORARI FILES % CAVED BY CHECKDOINT	53713460 33 101.637 53713460 33 101.837
Reserve Fig. Rese		% SAVED BY CHECKPOINT	53713400 33.101.637
Reserve Fig. Rese		% FILEACCESS (LEB WORD)	53713500 26.010.131
Reserve Fig. Rese	1 1	, VOLUMEDMIBITF=[47:1]# % CONSISTANT VOLUMED/UNVOLUMED	53/13550 30./X.685
Reserve Fig. Rese	1	, CREATEFILEF =[46:1]# % FILE WAS CREATED IN UPEN	53713600 331121095
Reserve Fig. Rese	1 1	, PRINTERCIL_OKF=[45:1]# % CONTROL FILE IS OK TO USE	53/13/00 35.015.442
Reserve Fig. Rese		, IMPLICIT OPENF = [44:1]# % FILE WAS IMPLICITLY OPENED ON WRITE	53713800 35.032.944
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449			53713910 29.7X.454
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449		, == • .=	53713920 32.035.221
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	1 1	, INDEXEDMODEF=[41:2]#	53713950 32.025.140
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	30 53713980	, UNVOLUMEDMTBITF=[39:1]# % INDICATES IF 1ST REEL IS UNVOLUMED	53713980 331051020
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	31 53713990	, POSITIONATENDF=[38:1]# % POSITION FILE AT END AT END OF OPEN	53713990 331061044
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	32 53713995	, USER_PRINTERKINDF=[37:4]# % INDICATES THE TYPE OF PRINTER	53713995 35.006.200
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	33 53714020	% O DONT CARE	53714020 35.006.200
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	34 53714040	% 1 IPONLY NIP PRINTER ONLY	53714040 35.006.200
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	35 53714060	% 2 LPONLY LINEPRINTER ONLY	53714060 35.006.200
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	\ \ \	. AUDITF =[33:2]# % RESERVE FOR B7700	53714080 31.061.240
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449		. TRAINIDE =[31:8]# % TRAINID ATTRIBUTE.	53714100 31.061.240
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449		PCWERRE =[23:8]# % IF THE CORRESPONDING PCW	53714200 35.015.440
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449		PWRITESERRE = [23:1]# % HAS "RAD" IN IT THESE FIELDS	53714300 35-015-440
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449		PREADSERRE = 122:11# % INDICATE THE REASON.	53714400 35.015.440
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	1 1	PWRITENERRE = [21:1]# %	53714500 35.015.440
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	1 1	PPFANNERPF = [20.1]# %	53714600 35.015.440
49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449		DCFEVEDDE - 140.41" 9	53714700 35 015 440
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49 53714840 , DIALOGNUMBERF = [15:08]# % DIALOG NUMBER FROM HOST SERVICES 53714840 31.170.670 50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 53714855 , FILEXFERFILEF = [02:01]# % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01]# % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53714870 , FOREIGNFILEF = [00:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 53714882 ,FAILWHICHSIGNF = [45:01]# % SIGN OF FAILWHICHF 53714884 340441097 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449	1 1	% [4/:16] % AVAILABLE	53/14830 32.081.715
50 53714850 % = [07:05] % AVAILABLE 53714850 331121095 51 53714855 , FILEXFERFILEF = [02:01] # % THIS FILE IN USE BY HS FILE XFER 53714855 31.187.766 52 53714860 , FCFILEF = [01:01] # % FILECOOP'S FILE FOR ANOTHER HOST 53714860 31.170.670 53 53714870 , FOREIGNFILEF = [00:01] # % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01] # % CALL MCPHANDLEERROR 53714880 340441097 56 53714882 ,FAILWHICHSIGNF = [46:01] # % SIGN OF FAILWHICHF 53714882 340441097 57 53714884 ,FAILPRINTEDF = [45:01] # % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 58 53714885 ,MYOFFSETF = [44:16] # % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 35.015.449		, MAASUBTILEST = [31:10]# % MAX SUB PURI FILES ALLOWED	73714837 32.081.715
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53 53714870 , FOREIGNFILEF = [O0:01]# % THIS FILE IS ON A FOREIGN HOST 53714870 31.170.670 54 53714875 % FAILUREREASON (LEB WORD) (OPEN/CLOSE FAILURE REASON) 53714875 32.122.892 55 53714880 ,FAILFATALF = [47:01]# % CALL MCPHANDLEERROR 53714880 340441097 56 53714882 ,FAILWHICHSIGNF = [46:01]# % SIGN OF FAILWHICHF 53714882 340441097 57 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 58 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890	1 1		53714860 31.170.670
54 53714875			53714870 31.170.670
55 53714880			53714875 32.122.892
56 53714882 ,FAILWHICHSIGNF = [46:01]# % SIGN OF FAILWHICHF 53714882 340441097 57 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 58 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890 % (FOR USER LABELS) 53714890 35.015.449 60 53714894 % = [28: 5]# % AVAILABLE 53714894 35.015.449	55 53714880	• · · · · · · · · · · · · · · · · · · ·	53714880 340441097
57 53714884 ,FAILPRINTEDF = [45:01]# % 1 => MESSER CALLED FOR THIS MESSAGE 53714884 340441097 58 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890	56 53714882	,FAILWHICHSIGNF = [46:01]# % SIGN OF FAILWHICHF	53714882 340441097
58 53714885 ,MYOFFSETF = [44:16]# % STACK RELATIVE OFFSET OF FILE 53714885 35.015.449 59 53714890			53714884 340441097
59 53714890			53714885 35.015.449
6d 53714894 % = [28: 5]# % AVAILABLE 53714894 35.015.449	59 53714890		53714890 35.015.449
	60 53714894		53714894 35.015.449

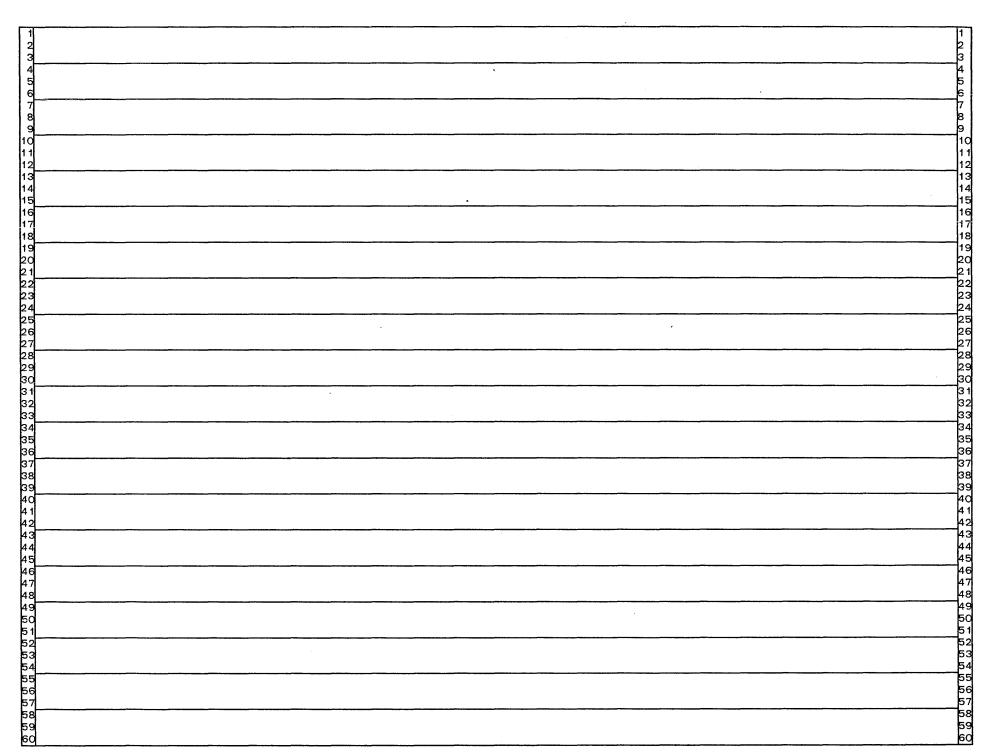
1 53714896	FAILWHATF = [23:12]# % CLOSEERRORVV OR OPENERRORVV	53714896 340441097	
2 53714898	<pre>,FAILWHATF = [23:12]# % CLOSEERRORVV OR OPENERRORVV ,FAILWHICHF = [11:12]# % MESSER ALREADY CALLED FOR THIS WHICH</pre>	53714896 340441097	2
3 53714900	% LEBMISC (LEB WORD) (MISCELLANEOUS INFORMATION)	53714990 32.142.970	k
4 53714905	% UNUSED BIT [47:01]	53714905 32.142.970	
5 53714910	, FRAMESIZEV = [46:01]# % FRAMESIZE VALIDITY BIT	53714910 32.142.970	Ę
6 53714915	FRAMESIZEF = [45:06]# % FRAMESIZE VALUE	53714915 32.142.970	6
7 537 14920	, DEPENDENTSPECSD=[39:01]# % DEPENDENTSPECS HAVE BEEN APPLIED	53714920 350571579	
8 53714925	, DEPENDENTSPECSF=[38:01]# % DEPENDENTSPECS VALUE	53714925 32.142.970	k
9 53714930	% UNUSED BITS [37:05]	53714930 32.177.970	<u> </u>
10 53714935	, AREALENGTHV = [32:01]# % AREALENGTH VALIDITY BIT	53714935 32.177.970	10
11 53714940	, AREALENGTHF = [31:32]# % AREALENGTH VALUE	53714940 32.177.970	111
12 53714960	,	53714960 340521258	lis
13 53714970	% END LEB FIELDS	53714970 340521258	13
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		WORKFILE [NOT NAMED] 5:04 P	M TUESDAY, AP	RIL 9, 1985	
37660626	DEFINE		37660626	350922267	-
37660628		O OF HEADER	37660628	350922267	
37660630	MARKERF = [47:1			321721099	
37660635		4'3F3F'#	37660635	321721099	····
37660640	,AVAILMARK =	4'3C3C'#	37660640	321721099	
37660645	,BADAREAMARK =	4'3A3A'#	37660645	321721099	
37660650	,MCPUSEMARK =	4'3939'#	37660650	321721099	
37660655	, PRESUSEMARK =	4'3838'# % PRESERVER USED AREA	37660655	321721099	
37660656	, HDROBUF = [47:L]	UB(16)]# % SAME AS MARKERF, BUT HDRO USES	37660656	350711836	
37660658	_	% FIELD TO HOLD FILE'S BASEUNIT.	37660658	350711836	
37660660	,HDRBLOCKLENGTHF = [31:1		37660660	350922267	
37660662	,MAXHEADERSIZEV = (2 **		37660662	350922267	
37660665	,HDRLOCATIONF = [20:2	•	37660665		
37660670	,AVAILFLAG(REC) = ((0 & AVA			321721099	
37660675		THF) & (REC) HDRLOCATIONF)#	37660675		
37660680		EMARK MARKERF & (L) HDRBLOCKLENGTHF	37660680	321721099	
37660685		& (R) HDRLOCATIONF)#	37660685	321721099	
37660700	% HEADERINFOONE		37660700	31.061.240	
37660800	% WORD 1	ALDIE TE ETTE HODATED	37660800	31.061.240	
37660900 37661000	, UPDATEBITF =[47:1]#	%TRUE IF FILE UPDATED		321721099	
37661000	, OPENCOUNTF =[46:11]# , AVAILOF =[35:04]#	% NUMBER OF PROCESSES %LOOKING AT TH % AVAILABLE, ZEROED BY HEADERKEEPER	37661000	31.061.240 34.028.677	
37661100	, AVAILOF =[35:04]# , FILEKINDF =[31:8]#	% AVAILABLE, ZERUED BY HEADERREEPER % DATA, CODE, ETC	37661100	34.028.677	
37661100	, FILERINDF -[31:8]# , HEADERSIZEF=[23:16]#	% SIZE IN WORDS		31.061.240	
37661300	, SECINFOSIZEF=[07:08]#	% SIZE IN WORDS % SIZE IN WORDS OF THE % SECURITY INF	37661300	31.061.240	
37661500	% HEADERTWO	10 SIZE IN WORDS OF THE 10 SECURITY INF		31.061.240	
37661600 37661600	% HEADERTWO %FILE ORGA	NIZATION		31.061.240	
37661700	, IADBIT =[47:1]#	% 1 IF IAD	37661700	31.061.240	
37661800	, PROTECTIONF=[46:1]#	% 1 IF FILE PROTECTED		33.012.356	
37661900	, PERMANENCYF=[45:1]#	% O IF TEMPORARY FILE.		33.012.356	
37661920	=	% 1 IF FILE HEADER IS IN FLAT	37661920	33.012.356	· · · · · · · · · · · · · · · · · · ·
37661940		% DIRECTORY OF JOBDESC FILE.	37661940		
37661950	, SYSTEMFYLEF=[44:1]#	% NON REMOVABLE FILE.	37661950	321721099	
37661980	, APLMAF =[43:1]#	% NEW APLMA BIT. SEE HEADERKEEPER	37661980	33.030.546	
37662000	, PHYSICALMODEF=[42:3]#	% EXTMODE AT CREATION	37662000	31.061.240	
37662100	, FILEORGF =[39:40]#	% SEE FIB[3]=TANKDATA1	37662100	31.061.240	
37662220	% FIB TANKDATA2		37662220	32.7X.205	
37662240	%WORD 3		37662240	32.7X.205	
37662250	% TIMESTAMP		37662250	32.7X.205	
37662260	%WORD 4		37662260	32.7X.205	
37662300	% ROWINFO		37662300	31.061.240	
37662400	%WORD 5			31.061.240	
37662500		PHDRLEVEL % IDENTIFIES FORMAT	37662500	321721099	
37662700	, PRIVUSERF =[43:01]#	% 1=PRIV USER HDR		31.061.240	
37662750	, SENSITIVEDATAF=[42:1]#	% SCRUB WHEN RELEASED.	37662750		
37662800	, SECURITYCODEF=[41:02]#	% CLASS OF SECURITY.		31.061.240	
37662900	, READWRITEF =[39:02]#	% READ/WRITE SECURITY		31.061.240	
37663000	, NUMROWSF =[37:14]#	% ROWS AVAIL FOR USE.	37663000		
37663100	, ROWSIZEF =[23:24]#	% SEGMENTS IN EACH ROW.	37663100	321721099	
37663200	% NAMEQUALIFICATIONINF	U	37663200	31.061.240	
37663300	%WORD 6	W HEED BY CONTROLLED FOR IOS ETLES	37663300	31.061.240	
37663320	, JOBORDERF=[47:43]#	% USED BY CONTROLLER FOR JOB FILES	37663320	31.193.794	
37663400	, SAVEFACTORF=[47:10]#	%SAVE TIME	37663400	31.061.240	
37663500	, CREATEDDATEF=[37:18]#	%WHEN THE FILE WAS MADE	37663500	31.061.240	
37663600	, OPENERF =[19:SNSIZE]#	% STK # OF OPENER	37663600	35.026.736	
37663700	, FILEORGANIZATIONF =[7:3]#	% FILEORGANIZATION ATTRIBUTE	37663700	31.163.604	
37663800	, COPYINFOF =[4:5]#	% VERSION DRCTRY STUFF	37663800	31.061.240	

1 37663900	, DUPLICATEDBIT=[4:1]#	% FILE IS DUPLICATED	37663900	1
2 37664000	, COPYNUMBERF=[3:4]#	% NUMBER OF THIS COPY	37664000 31.061.240	2
3 37664100	% ACCESSINFO		37664100 31.061.240	3
4 37664200	%WORD 7		37664200 31.061.240	4
5 37664300	, DISKPACKF =[47:1]#	%DISKPACK(HDR)	37664300 31.061.240	5
6 37664350	, WILLCRUNCHF=[45:1]#	% WILL BE CRUNCHED WHEN OPEN COUNT=O	37664350 321721099	Ę
7 37664400	, CRUNCHEDF = [44:1]#	% 1 IF FILE IS CRUNCHED	37664400 321721099	——
	. CONTENDORSF=[42:11]#	% I IF TIEL 13 GRONGILD	37664500 31.061.240	<u>"</u>
8 37664500	· · · · · · · · · · · · · · · · · · ·	OFOR EXTERNAL TAR		18
9 37664600	, IADVALIDITYF=[43:1]#	%FOR EXTERNAL IAD	37664600 31.061.240	9
10 37664700	, REBUILDF =[42:1]#	%REPRESENTATION	37664700 31.061.240	10
11 37664800	, IADINFOF =[41:10]#	% ONLY	37664800 31.061.240	1
12 37664900	, MODEF =[31:3]#		37664900 31.061.240	11
13 37665300	, WRITTENONF =[28:1]#	% 1 IF FILE WRITTEN ON.	37665300 31.061.240	1:
14 37665400	, WROTELASTROWF=[27:1]#	% 1 IF EOF ROW WRITTEN.	37665400 31.061.240	14
15 37665500	, CHECKEOFF =[26:1]#	% 1 IF MUST FIND EOF.	37665500 31.061.240	14
16 37665510	, ORIGHEADERVERSIONF = [25:4]#	% ORIG. HDR VERSION IF THIS HEADER	37665510 350922267	16
17 37665520	,	% ORIG. HDR VERSION IF THIS HEADER % IS A HDR WHICH WAS CONVERTED WHEN	37665520 350922267	[4]
18 37665530		% IT WAS READ FROM DISK; O IF NOT	37665530 350922267	11
		% CONVERTED (MEMORY VERSION ONLY)	37665540 350922267	
19 37665540	DOMADWEDS TONE - FOA : 41#			19 20 2
20 37665542	, ROWADVERSIONF=[21:4]#	% VERSION OF ROWAD WORDS IN HEADER ON	37665542 350922267	120
21 37665544		% DISK (VERSION 5 AND LATER HEADERS)	37665544 350922267	
22 37665550	, LASTACCESSDATEF=[17:18]#	%DATE LAST USED	37665550 321721099	p :
23 37665600	% D1LINKL		37665600 31.061.240	2: 2: 2: 2: 2: 2: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4:
24 37665700	% D1LINKWO	RD (CORE ONLY) % WORD 8 OF CODEFILE	37665700 34.004.088	þ.
25 37665750	%% WORD 8 IS ALSO USED AS THE	DMTIMESTAMPWORD (DATA FILES ONLY)	37665750 34.004.088	2:
26 37665800	, D1STACKLINKF=[35:SNSIZE]#		37665800 35.026.736	b e
27 37666000	% BDINFOWORDL		37666000 31.061.240	þ.
28 37666100	% WORD 9		37666100 31.061.240	
29 37666150		ERRORWORD IN ACTIVE MCP CODE FILE HEADERS	37666150 33.030.546	. 5
30 37666200	%% DESTCONTROLF = 47:24,	ERRORMOND IN ACTIVE MOT CODE TIES THEADERS	37666200 321721099	5,
31 37666400	, BDSTKNUMF =[11:SNSIZE]#	HODD WHODD 44	37666400 35.026.736	<u> </u>
32 37666410	% CREATIONORAPLORJOBIX		37666410 33.030.546	3.
33 37666412	, CREATIONDATEF = [47:16		37666412 33.030.546	3;
34 37666415]# % 3.3 FILE ATTRIBUTE CREATIONTIME	37666415 33.030.546	β,
35 37666420	, APLAPPLICATIONF = [0:1]#	% APL IS BIT O	37666420 32.035.221	β:
36 37666500	% JOBNUMBERL		37666500 31.061.240	36
37 37666600	% WORD 11	OF A JOB FILE HEADER	37666600 31.061.240	3.
38 37666700	, JOBVALIDIF =[47:1]#		37666700 31.061.240	38
39 37666800	, PBBITS =[45:6]#	%% 45->LPDK,44->LPSRPK,43->LPNAMEDPK	37666800 31.061.240	39
40 37666900		% 42->CPDK.41->CPSRPK.40->CPNAMEDPK	37666900 31.061.240	
41 37667000	. LPWHEREF =[45:3]#	,	37667000 31.061.240	<u>[a</u> `
42 37667100	, CPWHEREF =[42:3]#		37667100 31.061.240	<u>ر</u>
43 37667150	, JOBSUMF =[39:4]#	% CONTAINS VALUE OF JOBSUMMARY	37667150 33.044.732	
J J	, NOJOBSUMMARYIOF =[35:1]#			Ľ.
44 37667180			37667180 351112511	14.
45 37667190	, JSTITLESETF=[34:1]#	% IS SET IF JOBSUMMARYTITLE IS SET	37667190 351122543	4
46 37667195	% %%%%%%% UNUSED [33:2] %%%	%%%%%%%	37667195 351122543	144
47 37667200	, JOBORGUNITF=[31:16]#		37667200 31.061.240	μ.
48 37667300	, MIXNOF =[15:16]#		37667300 31.061.240	4
49 37667400	% COREINDEXL		37667400 31.061.240	49
50 37667500	, TIMESTAMPSYNCF=[47:1]#	% O IMPLIES UPDATE CATALALOG	37667500 31.061.240	
51 37667600	, COREINDEXF =[46:47]#		37667600 31.061.240	5
52 37667700	% DISKPACKINFO		37667700 31.061.240	
53 37667800	% WORD 13		37667800 31.061.240	Ę.
54 37667900	, INTERCHANGEF=[47:1]#		37667900 31.061.240	Ę.
55 37667940	, SINGLEF = [46:1]#	N OVE THE DOUBLE AND AND AND AND AND AND AND AND AND AND	37667940 321721099	p:
56 37667960	, CYLMODEHDRF=[44:1]#	% CYLIN BOUNDARY ALLOC	37667960 321721099	[2]
57 37668000	, SERNUMF =[43:20]#		37668000 31.061.240	5
58 37668050	, BASEUNITF =[23:LUB(12)]#		37668050 350421199	50 53 53 55 55 55 56
	14675 [44 115(46)]"		27669100 250421100	ie:
59 37668100 60 37668500	, LASTF =[11:LUB(12)]#		37668100 350421199 37668500 31.061.240	b.

1 37668600	, EOFU =[47:20]# % WORD 14. CF: DSKEOFU AND FIBEOFU	37668600 340621611	14
2 37668700		37668600 340621611 37668700 340621611	6
3 37668740	, EOFV =[27:28]#	37668740 33.030.546	á
4 37668760	%% USED FOR 3.3 FILE ATTRIBUTE USERINFO	37668760 33.030.546	——~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
5 37668800	% BACKUPCONTROLL	37668800 31.061.240	Ę
6 37668820	% BACKOPCONTROLL %%%%%%%%%%%%%%%%% WORD 16 (NEXTROWWRD)		Ę
7 37668830		37668820 31.218.969	
1 1		37668830 31.218.969	1/2
8 37668840	, HDRCATF =[46:1]# % = 1 IF FILE IS CATALOGED	37668840 31.218.969	8
9 37668850	% [39:10] % NEXT FASTIOV ROW	37668850 31.218.969	
10 37668860	% [29:10] % NEXT VASTIOV ROW	37668860 31.218.969	110
11 37668870	% [19:10] % NEXT CATION ROW	37668870 31.218.969	11
12 37668880	% [9:10] % NEXT FLATIOV OR VOLIOV ROW		12
13 37668900	%%%%%%%%%%%%%%%% WORD 17 OF A JOB FILE HEADER.	37668900 31.218.969	13
14 37669000	, PHASEF =[1:2]#	37669000 31.061.240	14 15
	% VALUES FOR JOBPHASE(HDR)	37669020 33.012.356 37669040 33.012.356	
	, RESTARTPHASE = 1 #		110
17 37669060	, RUNPHASE = 2 #	37669060 33.012.356	11/
18 37669080	, PRINTPHASE = 3 #	37669080 33.012.356	;;
19 37669100	, NOSUMMARYOVRDF=[4:1]#	37669100 31.061.240 37669300 31.061.240	الم
20 37669200	, INFSF =[5:1]#	37669200 31.061.240 37669200 31.061.240	K.
	, FSFF =[6:1]# , RESFF =[7:1]#	37669300 31.061.240 37669400 31.061.240	
22 37669400 23 37669500	, RESFF =[7:1]# , BDPRIORF =[29:22]#	37669500 31.061.240	ha
24 37669600	, BDPRIORF =[29:22]# . CHECKPTF =[39:10]#	37669600 31.061.240	5
25 37669700	, JFCOPIEDF =[40:1]#	37669700 31.061.240	
26 37669800	, OPCOPIED =[40:1]# , CPRESTARTF =[41:1]#	37669800 31.061.240	he
27 37669900	. CCRESTARTF =[41:1]#	37669900 31.061.240	27
28 37670000	, CCPESTARTE =[42:1]# , CPPACKF =[43:1]#	37670000 31.061.240	
29 37670100	FCF -[44.4]#	37670100 31.061.240	20
30 37670200	, rsr =[44:1]# , IBF =[45:1]#	37670200 31.061.240	30
31 37670300	, RESF =[46:1]#	37670300 31.061.240	
32 37670400	, ROWF =[47:1]#	37670400 31.061.240	32
33 37670450	%%% WORD 17 ALSO USED FOR 3.3 FILE ATTRIBUTES ALTERDATE AND ALTERTIME	37670450 33.030.546	33
34 37670460	, ALTERDATEF =[47:16]#	37670460 33.030.546	34
35 37670480	, ALTERTIMEF =[31:32]#	37670480 33.030.546	35
36 37670500	% PBITIOCONTROLL	37670500 31.061.240	36
37 37670600	% WORD 18	37670600 31.061.240	16 17 18 20 21 22 24 25 26 27 28 29 27 28 31 32 33 34 47 47 48 47 48
38 37670650	%%% HDRCM = [47:01] = 1> FOR POST 33 CM. = 0> PRE 33	37670650 33.030.546	38
39 37670700	, PBITIOHIATUSF=[1:1]#	37670700 31.061.240	39
40 37670800	, CODEIOCOUNTF=[15:14]#	37670800 31.061.240	40
41 37670840	% WORD 19	37670840 33.030.546	4
42 37670860	%%% WORD 19 IS USED FOR 3.3 FILE ATTRIBUTE USETIME ALIAS ACCESSTIME.	37670860 33.030.546	42
43 37670870	, ACCESSDATEF =[47:16]#	37670870 33.030.546	43
44 37670880	, ACCESSTIMEF =[31:32]#	37670880 33.030.546	44
45 37670882	·	37670882 350922267	45
46 37670884	% ROW ADDRESSES BEGIN AT FIRSTROWINDEX AND CONTINUE FOR AS MANY	37670884 350922267	46
47 37670886	% WORDS AS THERE ARE ROWS (MAXIMUM=1023). ROW ADDRESSES ARE IN	37670886 350922267	47
48 37670888	% STANDARD MASS-ADDRESS FORM.	37670888 350922267	48
49 37670890	% THE SECURITY INFORMATION FOLLOWS THE ROW ADDRESSES;	37670890 350922267	49
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T1		WORKFILE [NOT NAMED]	5:05 PM TUESDAY, APRIL 9, 1985	11
3				2
4	37623600	DEFINE	37623600 34.034.823	4
5	37623700		37623700 31.036.234	5
6	37623800	%	37623800 22.000.145	_6
7	37623900	%	37623900 31.041.240	7
8	37624000	% THE FOLLOWING IS A DESCRIPTION OF A FILE HEADER	37624000 31.041.240	8
9	37624100	%	37624100 31.041.240	_19
110	37625500	% THOSE NAMES FOR ACCESSING THINGS FROM THE HEADER.	37625500 26.030.523	110
12	37625600 37625700	ACCESSDATE(HDR) = ACCESSDATEWORD(HDR).LASTACCESSDATEF # .ACCESSDATEWORD(HDR) = HDR[7] #	37625600 321721099 37625700 21.000.119	_ 1 1:
13	37625700	,ACCESSTATEWORD(HDR) = HDR[7] # ,ACCESSTIMESTAMP(HDR) = HDR[19]# % 3.3 FILE ATTRIBUTE USETIME	37625700 21.000.119	¦
14	37625740	.ACCESSTSTIME(HDR) = ACCESSTIMESTAMP(HDR).ACCESSTIMEF#	37625740 33.030.546	li.
15	37625745	,ACCESSTSDATE(HDR) = ACCESSTIMESTAMP(HDR).ACCESSDATEF#	37625745 33.030.546	1
16		,ALLOCATEDROW(HDR,ROW) = BOOLEAN(HDR[FIRSTROWINDEX + ROW])	37625800 26.025.307	11
17	37625900	.ALLOCATEDROWF #	37625900 26.025.307	11
18	37626000	,ALLOCATING(HDR)= NEXTROWWRD(HDR).ALLOCATINGF #	37626000 31.218.969	_]1:
19	37626020	,ALTERTIMESTAMP(HDR) = HDR[17] # % 3.3 FILE ATTRIBUTES	37626020 33.030.546	11
20	37626030	,ALTERTIME(HDR) = ALTERTIMESTAMP(HDR).ALTERTIMEF #	37626030 33.030.546	120
21	37626040 -	,ALTERDATE(HDR) = ALTERTIMESTAMP(HDR).ALTERDATEF #	37626040 33.030.546	- ¹²
22	37626060	,APLMA(HDR) = HDR[2].APLMAF# % THIS IS A DUPLICATED APLMA BIT. THE	37626060 33.030.546	7
P 3	37626080 37626090	<pre>% OLD APLMA BIT (OLDAPLMA) IS IN WORD 11 BIT O. SEE HEADERKEEPER. ,AVAILO(HDR) = HDR[1].AVAILOF# % FORMERLY SPEED ATTRIBUTE, AVAILABLE</pre>		
65	37626100	.BASEUNIT(HDR) = HDR[1].AVAILOF# % FORMERLY SPEED ATTRIBUTE, AVAILABLE	37626100 22.000.371	₩,
26		,BACKUPFILE(HDR) = FILEKIND(HDR) IS BACKUPPRINTER	37626200 26.025.252	50
27	37626300	OR FILEKIND(HDR) IS BACKUPPUNCH #	37626300 26.025.252	2
28	37626400	,BDINFOWORD(HDR) = HDR[9] #	37626400 26.030.483	72
29	37626500	,BACKUPCONTROLIX = 17 #	37626500 26.030.523	29
30	37626600	,BACKUPCONTROL(HDR) = HDR[BACKUPCONTROLIX] #	37626600 24.000.238	_ 30
31	37626800	,BDSTACKNUM(HDR) = BDINFOWORD(HDR).BDSTKNUMF#	37626800 24.000.183	3
32		,BDSERIALNUM(HDR) = BDINFOWORD(HDR).BDSERIALF #	37626900 24.000.183	3
33		,BUMPCODEIOCOUNT(HDR,TEMP)=	37627000 31.016.124	<u>ل</u> م
24	37627100	BEGIN [CONTROLSTATE]	37627100 32.032.159 37627200 31.016.124	9
35	1	TEMP:=BUZZ(HDR[18]); TEMP.CODEIOCOUNTF:=TEMP.CODEIOCOUNTF+1;	37627200 31.016.124	2
37		HDR[18]:=TEMP; % UNLOCK	37627400 31.016.124	_듯
38	1	END#	37627500 31.016.124	3
39		.CATALOGED(HDR) = NEXTROWWRD(HDR).HDRCATF#	37627600 31.218.969	3
40	37627900	,CHECKEOF(HDR) = HDR[7].CHECKEOFF #	37627900 26.025.196	74
41	37628000	,CONTENDORS(HDR) = HDR[7].CONTENDORSF #	37628000 22.000.265	4
42	37628300	,COPYNUMBER(HDR)= FILEQUALITY(HDR).COPYNUMBERF #	37628300 26.090.564	_4:
43	37628400	,COREINDEX(HDR) = HDR[12].COREINDEXF #	.37628400 290362	4
44	1	,CREATIONDATE(HDR) = HDR[6].CREATEDDATEF#	37628500 21.000.003	4: -4: -4: -4: -4: -4:
45	37628550	, CREATIONORAPLORJOBIX = 11#	37628550 33.030.546	-1°
46	37628560	,CREATIONTIMESTAMP(HDR) = HDR[CREATIONORAPLORJOBIX].[47:47]#	37628560 33.030.546	ľ
4	37628580 37628590	<pre>,CREATIONTSDATE(HDR) = HDR[CREATIONORAPLORJOBIX].CREATIONDATEF # ,CREATIONTSTIME(HDR) = HDR[CREATIONORAPLORJOBIX].CREATIONTIMEF#</pre>	37628580 33.030.546 37628590 33.030.546	G
Lo	37628600	, CRUNCHED(HDR) = HDR[7]. CRUNCHEDF #	37628600 24.000.268	-[4
50	37628700	,CYLMODE(HDR) = HDR[13].CYLMODEHDRF # %CYLINDER ALLOC	37628700 26.000.086	5
51		,D1LINKWORD(HDR) = HDR[8] #	37628800 34.004.088	5
52		,D1LINK(HDR) = D1LINKWORD(HDR).D1STACKLINKF #	37628850 34.004.088	Τþ
53		,DECREMENTCODEIOCOUNT(HDR,TEMP)=	37628900 DATEANDT	5
54		BEGIN [CONTROLSTATE]	37629000 32.032.159	_ 5
55		TEMP:=BUZZ(HDR[18]);	37629100 31.016.124	5
56		TEMP.CODEIOCOUNTF:=TEMP.CODEIOCOUNTF-1;	37629200 31.016.124	5
57		IF TEMP.CODEIOCOUNTF = 0 THEN	37629300 31.016.124	_E
58		TEMP.PBITIOHIATUSF:=0;	37629400 31.016.124	5
59		HDR[18]:=TEMP; % UNLOCK	37629500 31.016.124 37629600 31.016.124	2 0 0 0 0 0 0 0 0 0 0
60	37629600	END#	3/023000 31.010.124	

1 3	7629700	,DELAYEDCRUNCH(HDR) = BOOLEAN(HDR[7].WILLCRUNCHF) #	37629700	24.000.268
12/3	7629800	DELAYCRUNCH(HDR) = HDR[7].WILLCRUNCHF #	37629800	24.000.268
3 3	7629900	DISKADR(HDR.REC.RWSZ) = % RETURNS A SEGMENT ADDRESS	37629900	350541499
	7630000	(ROWADDRESSWORD(HDR, (REC) DIV RWSZ).SEGADDRESSF+(REC) MOD RWSZ) #	37630000	
		DISKADRINFO(HDR, SEG) = % RETURNS A SEGMENT ADDRESS AND LU #	37630025	
6 3	7630035	(O & ROWUNIT(HDR,(SEG DIV ROWSIZE(HDR))) ROWUNITNUMF	37630035	
7 3	7630055	& (ROWADDRESSWORD(HDR,(SEG DIV ROWSIZE(HDR))).SEGADDRESSF+	37630055	350611756
8 3	7630060	(SEG MOD ROWSIZE(HDR)))	37630060	350611756
• 1	7630065	ROWBASEADDRESSF) #	37630065	
		DISKBLOCKING(HDR) = HDR[3]#		21.000.003
1 1				
		,DISKBLOCKSIZE(HDR) = DISKBLOCKING(HDR).BLOCKSIZEF#		31.163.604
		,DISKCYCLE(HDR) = DISKGENEALOGYWORD(HDR).CYCLE #	37630300	26.030.523
13 3	7630400	,DISKFILEMODE(HDR) = HDR[7].MODEF #	37630400	22.000.265
114 3	7630500	DISKGENEALOGY(HDR) = DISKGENEALOGYWORD(HDR).GENEALOGYF #	37630500	26.030.523
	7630600	.DISKGENEALOGYWORD(HDR) = HDR[10] #		26.030.523 26.030.523
1 —		DISKMAXRECSIZE(HDR) = DISKBLOCKING(HDR).MAXRECSIZEF#	27620700	31.163.604
				31.103.004
		DISKPACK(HDR)=BOOLEAN(HDR[7].DISKPACKF)#		21.000.187
	7630900	,DISKPACKHDR(HDR)=HDR[7].DISKPACKF#		21.000.187
19 3	7631000	,DISKPACKSERNUM(HDR,ROW)=HDR[ROW].DPSERIALOREUF#	37631000	31.163.604 21.000.187 21.000.187 21.000.199
	7631100	,DISKPACKWORD(HDR) = HDR[13]#	37631100	22.000.152
	7631200	<pre>,DISKPACKSERNUM(HDR,ROW)=HDR[ROW].DPSERIALOREUF# ,DISKPACKWORD(HDR) = HDR[13]# ,DISKSAVEFCTR(HDR) = HDR[6].SAVEFACTORF # ,DISKVERSION(HDR) = DISKGENEALOGYWORD(HDR).GENVERSN # ,DMSROWLOCK(HDR,ROW)=HDR[ROW+FIRSTROWINDEX].DMLOCKBITSF# ,DMTIMESTAMP(HDR) = D1LINKWORD(HDR) #</pre>		22.000.152 21.000.003
_	7631400	DISCOURDS ON (HDD) - DISCOURS ALOCAWODD (HDD) CENVERS N #	37631400	26.030.523
	7631400	DMCDOWLOCK/UDD) - DISAGENEALUGIWOKK/UDK).GENVERSN #		
	37631500	,DMSRUWLUCK(HDR,RUW)=HDR[RUW+FIRS RUWINDEX].DMLUCKBI SF#		25.020.200
	7631600	,DMTIMESTAMP(HDR) = D1LINKWORD(HDR) #		34.004.088
25 3	7631700	,DSKEOF(HDR)=HDR[14]# .	37631700	21.000.119
26 3	37631800	.DSKEOFU(HDR)=DSKEOF(HDR).EOFU#	37631800	21.000.119
		.DSKEOFU(HDR)=DSKEOF(HDR).EOFU# ,DSKEOFV(HDR)=DSKEOF(HDR).EOFV# % THE CONVENTION FOR DSKEOF IS SUPPOSED TO BE: % DSKEOFV = NUMBER OF WHOLE SEGMENTS IN THE FILE:	37631900	21.000.119
	7631920	9 THE CONVENTION FOR DSPECE IS SUPPOSED TO BE		331241208
		% THE CONVENTION FOR DESCRIPTION IS SUFFOSED TO BE		204044200
1 1	7631940			331241208
. —	7631960	% DSKEOFU = NUMBER OF BITS IN ANY PARTIAL LAST SEGMENT (MAY BE 0).		331241208
31 3	37632000	,DUPLICATED(HDR)=BOOLEAN(HDR[6].DUPLICATEDBIT)#	37632000	21.000.232
32 3	37632100	,ERRORWORD(HDR) = HDR[9] # % NOTE WORD 9 IS ALSO USED FOR BDINFO	37632100	33.030.546
33 3		FILEORGANIZATION(HDR)=HDR[6].FILEORGANIZATIONF #	37632200	31.163.604
. —		FILEQUALITY(HDR)=HDR[6]#		21.000.119
		FILESTRUCTURE(HDR)=HDR[5]#		21.000.119
				21.000.119
1	37632500	,FILEKIND(HDR) = HDR[1].FILEKINDF #		26.025.252
137 1 3	37632600	,FIBINFO(HDR) = HDR[2]#	37632600	21.000.003
38 3	37632700	,FIRSTROWINDEX = 20 #	37632700	26.030.480
ks91 3	37632900	.HDRBLOCKLENGTH(HDR) = HDR[0].HDRBLOCKLENGTHF# ·	37632900	26.025.406
	37632950	,HDRBLOCKLENGTH(HDR) = HDR[O].HDRBLOCKLENGTHF# ,HDRCM = [47:01] # % MAY BE TEMPORARY. SEE HEADERKEEPER NOTES.	37632950	
		HDRLOCATION(HDR) = HDR[0].HDRLOCATIONF#	37633000	26.025.406
1 1				31.016.124
_	37633100	,HDRMAKER(HDR) = HDR[6].OPENERF#		31.010.124
		HDRMARKER(HDR) = HDR[O].MARKERF#	37633200	26.025.406
44 3	37633300	,HEADERGUARDP(HDR) = POINTER(HDR[FIRSTROWINDEX	37633300	26.090.564
45 3	37633400	+ NUMBEROFROWS(HDR)],8) #	37633400	26.090.564
		,HEADERINFO(HDR) = HDR[1] #	37633500	21.000.119
1 1	37633550	,HEADERROWADVERSION(HDR) = HDR[7].ROWADVERSIONF #		350922267
	37633600	<pre>,HEADERROWADVERSION(HDR) = HDR[7].ROWADVERSIONF # ,HEADERSERNUM(HDR) = DISKPACKWORD(HDR).SERNUMF # ,HEADERSIZE(HDR) = HDR[1].HEADERSIZEF # ,HEADERTITLE(HDR) = POINTER(HDR[HEADERSIZE(HDR)],8)# .HEADERTITLEHEAD(HDR) = HDR[HEADERSIZE(HDR)]#</pre>		26.090.564
	7033000	, TIEADERSERINOM(TDK) - DISNYACKWOKD(TDK). SEKNOMF #		20.090.004
	37633700	HEADERSIZE(HDR) = HDR[1].HEADERSIZEF #		21.000.003
	37633800	,HEADERTITLE(HDR) = POINTER(HDR[HEADERSIZE(HDR)],8)#		23.333.33
51 3	37633900	,HEADERTITLEHEAD(HDR) = HDR[HEADERSIZE(HDR)]#	37633900	31.143.489 21.000.199 21.000.232 23.001.257 21.000.087 22.000.098 33.030.546 24.000.238 24.000.238
52 3	37634000	.HEADERVERSION(HDR) = HDR[5] .VERSIONF#	37634000	21.000.199
		.IADFILE(HDR)=BOOLEAN(HDR[2].IADBIT)#	37634100	21.000.232
			37634200	23.001.257
	37634200	,IADFILER(HDR)=HDR[2].IADBIT#		20.001.201
		,IADINFO(HDR)=HDR[7].IADINFOF#	37634300	23.001.257
56 3	37634400	,INTERCHANGE(HDR)=BOOLEAN(HDR[13].INTERCHANGEF)#	37634400	21.000.087
57 3	37634500	,INTERCHG(HDR)=HDR[13].INTERCHANGEF#	37634500	22.000.098
	37634600	JOBNUMBERIX = CREATIONORAPLORJOBIX #	37634600	33.030.546
	37634700	,JOBNUMBER(HDR) = HDR[JOBNUMBERIX] #	37634700	24.000.238
				24 000 220
6O) 3	37634800	,JOBPHASE(HDR) = BACKUPCONTROL(HDR).PHASEF #	37634800	24.000.238

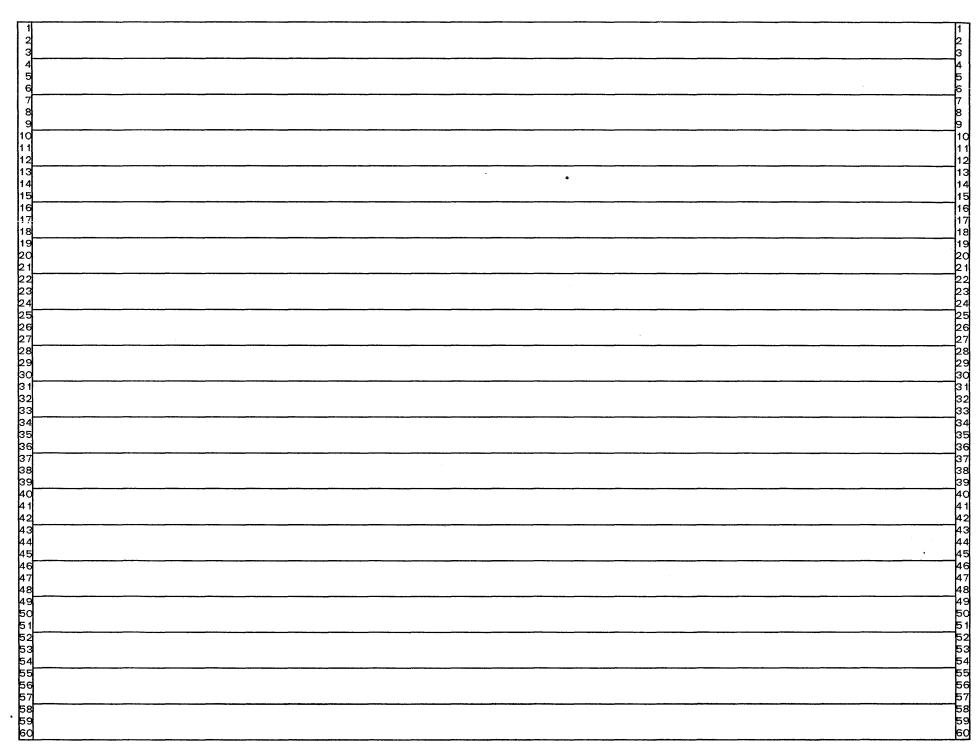
1 37634900	,JOBMIXNO(HDR) = JOBNUMBER(HDR).MIXNOF #	37634900 24.000.238	1
2 37635000	,LASTCP(HDR) = BACKUPCONTROL(HDR).CHECKPTF #	37635000 DISKFILE	12
3 37635100	,LASTU(HDR)=HDR[13].LASTF#	37635100 21.000.157	3
4 37635200	,LINKVALIDITY(HDR)=HDR[7].IADVALIDITYF#	37635200 23.001.257	4
5 37635300	,NEXTROW(HDR,T) = NEXTROWWRD(HDR)	37635300 26.030.480	5
6 37635400	.[(CASE T OF (39,29,9,19,9)):10] #	37635400 26.030.480	6
7 37635500	,NEXTROWWRD(HDR)= HDR[16] #	37635500 26.030.480	₇
8 37635600	NOROWV = 1023 #	37635600 26.030.480	k
9 37635700	,NUMBEROFROWS(HDR) = HDR[5].NUMROWSF #	37635700 21.000.003	6
10 37635720	, NUMBEROFSEGMENTS(HDR) = (DSKEOFV(HDR) +	37635700 21.000.003	;
11 37635740	(DSKEOFU(HDR)+(30*48)-1) DIV (30*48)) #		1
1 1		37635740 32.033.180	1
12 37635800	,OLDAPLMA(HDR)=HDR[CREATIONORAPLORJOBIX].APLAPPLICATIONF#	37635800 33.030.546	!
13 37635900	,OPENCOUNT(HDR) = HDR[1].OPENCOUNTF #	37635900 21.000.003	1
14 37635950	,ORIGHEADERVERSION(HDR) = HDR[7].ORIGHEADERVERSIONF #	37635950 350922267	1 1
15 37636000	OUTSTANDINGIOCOUNT(HDR) = HDR[18]# % FROM PBIT,EOJ,PROGRAMDUMP	37636000 31.016.124	
16 37636100	,PERMANENT(HDR) = BOOLEAN(HDR[2].PERMANENCYF) #	37636100 22.000.457	1
17 37636200	,PERMANENTDISKFILE(HDR) = HDR[2].PERMANENCYF #	37636200 21.000.052	1
18 37636300	,PMODE(HDR) = FIBINFO(HDR).PHYSICALMODEF#	37636300 33.003.076	1
19 37636400	,PRIVILEDGEDBIT(HDR) = HDR[5].PRIVUSERF #	37636400 21.000.199	1
20 37636500	,PROTECTEDBIT(HDR)=HDR[2].PROTECTIONF #	37636500 21.000.003	b
21 37636600	,READWRITEUSE(HDR)=HDR[5].READWRITEF #	37636600 21.000.199	1 2 2
22 37636700	REBUILDLINKS(HDR) = HDR[7].REBUILDF#	37636700 23.001.257	— "ნ
23 37636900	,REBUILDEINKS(HDR) = HDR[7].REBUILDF# ,ROWADDRESSWORD(HDR,ROWNBR) = HDR[FIRSTROWINDEX + ROWNBR] #	37636700 23.001.257	۲
24 37637000	.ROWUNIT(HDR.ROW)=FAMINDEXUNIT(BASEUNIT(HDR).		Ľ
		37637000 350541499	—≝
25 37637050	HDR[FIRSTROWINDEX+ROW].FAMILYINDEXF) #	37637050 350541499	- 12
26 37637100	% ROWINDEX(FIB,SEGADDRESS,LU) IS A PROCEDURE THAT RETURNS THE ROW #	37637100 351802860	- 12
27 37637150	% OF THE FIB HEADER ROW THAT RESIDES ON LU AND CONTAINS SEGADDRESS.	37637150 351802860	12
28 37637200	,ROWSIZE(HDR) = HDR[5].ROWSIZEF #	37637200 21.000.003	þ
29 37637300	,SAVETIME(HDR) = HDR[6].SAVEFACTORF #	37637300 21.000.003	12
30 37637400	,SECURITYAREA = O#	37637400 31.016.124	3
31 37637500	,SECURITYCLASS(HDR)=HDR[5].SECURITYCODEF #	37637500 21.000.199	3
32 37637600	,SECURITYINFO(HDR) = HDR[HDR[5].NUMROWSF+FIRSTROWINDEX] #	37637600 21.000.003	В
33 37637700	,SECURITYSIZE(HDR) = HDR[1].SECINFOSIZEF #	37637700 21.000.199	В
34 37637800	,SENSITIVEDATA(HDR) = BOOLEAN(SENSITIVEDATAFILE(HDR)) #	37637800 26.090.555	3
35 37637900	,SENSITIVEDATAFILE(HDR) = FILESTRUCTURE(HDR).SENSITIVEDATAF #	37637900 26.090.555	Ã
36 37637940	,SETCREATIONTIMESTAMP(HDR, VALU)=	37637940 33.030.546	ā
37 37637960	CREATIONTIMESTAMM (TIDK, VALU).[47:47] #	37637960 33.030.546	22 22 22 22 22 23 33 33 33 33
38 37638000	,SINGLEPACK(HDR)=BOOLEAN(HDR[13].SINGLEF)#	37638000 21.000.157	Ę
39 37638200			Ľ
	,SYSTEMFILE(HDR)= FIBINFO(HDR).SYSTEMFYLEF #		12
40 37638300	TANKD1(HDR)=HDR[2].[43:44]#	37638300 21.000.257	1.
41 37638400	TANKD2(HDR)=HDR[3]#	37638400 21.000.257	۲
42 37638500	TEMPORARY(HDR) = NOT PERMANENT(HDR) #	37638500 26.030.480	444444
43 37638600	,TIMESTAMP(HDR) = HDR[4] #	37638600 26.030.480	14
44 37638700	,TIMESTAMPHEADER(HDR)= TIMESTAMP(HDR) := DATEANDTIME #	37638700 26.030.480	4
45 37638800	TIMESTAMPSYNC(HDR) = HDR[12].TIMESTAMPSYNCF #	37638800 290362	
46 37638900	,TIMESTAMPSYNCED(HDR) = BOOLEAN(HDR[12].TIMESTAMPSYNCF) #	37638900 290362	74
47 37638920	TSTOMICRO = 38.4 # % THE TIMESTAMP (TS) TIME IS STORED IN 2.4 MICRO	37638920 33.030.546	14
48 37638940	% SECOND UNITS RIGHT TRUNCATED BY 4 BITS. TO GET THE TS TIME TO	37638940 33.030.546	4
49 37638960	% MICROSECONDS. MUST MULTIPLY BY 2.4 AND ADJUST BY 16. THUS 38.4:	37638960 33.030.546	
50 37638980	% CONVERSELY, TO OBTAIN TS TIME FROM MICROSECONDS, DIV BY THIS #.	37638980 33.030.546	
51 37639000	,UPDATED(HDR) = HDR[1].UPDATEBITF#	37639000 21.000.003	Ĕ
52 37639050	,USERINFO(HDR) = HDR[15]# % 3.3 FILE ATTRIBUTE.	37639050 33.030.546	——≟
53 37639100	, WAITFORIOHIATUS(HDR, TEMP) = % RETURNS O IN TEMP IF OK		
			Ē
54 37639200	BEGIN [CONTROLSTATE]	37639200 32.032.159	E
55 37639300	TEMP:=BUZZ(HDR[18]);	37639300 31.016.124	F
56 37639400	IF TEMP.CODEIOCOUNTF = O THEN	37639400 31.016.124	٦
57 37639500	BEGIN	37639500 31.016.124	
58 37639600	HDR[18]:=TEMP; % UNLOCK	37639600 31.016.124	5
59 37639700	TEMP:=O; % RETURN OK RESULT	37639700 31.016.124	

1 37639900	BEGIN	37639900 31.016.124	1
2 37640000	HDR[18]:=TEMP:=*&1 PBITIOHIATUSF; % UNLOCK	37640000 31.016.124	b
3 37640100	THRU 10 DO	37640100 31.016.124	k
4 37640200	BEGIN	37640200 31.016.124	——;
5 37640300	IF TEMP.PBITIOHIATUSF = 1 THEN	37640300 31.016.124	E
6 37640400	BEGIN		2
		37640400 31.016.124	6
7 37640500	TIMETUNNEL(1);	37640500 31.016.124	17
8 37640600	TEMP:=BUZZ(HDR[18]);	37640600 31.016.124	8
9 37640700	HDR[18]:=TEMP; % UNLOCK	37640700 31.016.124	b
10 37640800	END:	37640800 31.016.124	10
11 37640900	END;	37640900 31.016.124	1
12 37641000	TEMP:=*.PBITIOHIATUSF; % SET RESULT		1
13 37641100	END:	37641100 31.016.124	
1 - 1	•		1:
14 37641200	END#	37641200 31.016.124	114
15 37641300	,WRITTENON(HDR) = HDR[7].WRITTENONF #	37641300 26.025.196	1!
16 37641400	,WROTELASTROW(HDR) = HDR[7].WROTELASTROWF #	37641400 26.025.196	110
17 37641500	%THESE DEFINITIONS ARE TO BE USED FOR "FILEKIND" IN	37641500 31.050.290	11
118 37641600	%FILE HEADERS AND DIRECTORY NAME ENTRIES:	37641600 31.050.290	11:
19 37641800	.VERSIONDIRECTORY = (VERSIONDIRECTORYAV) MVALUF #	37641800 34.022.438	
20 37642000	<pre>,WROTELASTROW(HDR) = HDR[7].WROTELASTROWF # %THESE DEFINITIONS ARE TO BE USED FOR "FILEKIND" IN %FILE HEADERS AND DIRECTORY NAME ENTRIES: ,VERSIONDIRECTORY = (VERSIONDIRECTORYAV).MVALUE # ,CATALOGFILE = (CATALOGAV).MVALUE # ,BACKUPPRINTER = (BACKUPPRINTERAV).MVALUE # ,RECONSTRUCTIONFILE = (RECONSTRUCTIONFILEAV).MVALUE # ,SYSTEMDIRFILE = (SYSTEMDIRFILEAV).MVALUE # ,JOBDESCFILE = (JOBDESCFILEAV).MVALUE # ARCHIVELOG = (ARCHIVELOGAV).MVALUE #</pre>	37642000 34.022.438	h'.
21 37642100	PACHIDDENTED = (PACHIDDENTEDAY) MVALUE #	37642100 34.022.438	۲,
	, DECONSTRUCTOR - (DECONSTRUCTOR) - (MALLE //	37642100 34.022.438	—K
22 37642200	, RECURS : RUCI TUNFILE = (RECURS : RUCI TUNFILEAV). MVALUE #	37642200 34.022.438	12:
23 37642300	,SYSTEMDIRFILE = (SYSTEMDIRFILEAV).MVALUE #	37642300 34.022.438	12:
24 37642400	,JOBDESCFILE = (JOBDESCFILEAV).MVALUE #	37642400 34.022.438	2
25 37642500 .	, month the day (midit the day) in the of	01042000 04.022.400	b
26 37642550	,BOOTCODE = (BOOTCODEAV).MVALUE # % INITIALIZATION CODEFILE	37642550 350731899	b
27 37642600	,XDISKFILE = (XDISKFILEAV).MVALUE #	37642600 34.022.438	Б.
28 37642700	% FILEKIND 16 IS RESERVED FOR FUTURE IMPLEMENTATION %	37642700 31.156.552	—
1 1	% - 15 RESERVED FOR FOTORE IMPLEMENTATION // % BACKUPPRINTER = 16 # % FOR FUTURE IMPLEMENTATION. %		15
1 1	The state of the s	37642800 22.000.071	2
30 37642900	,BACKUPPUNCH = (BACKUPPUNCHAV).MVALUE # %	37642900 34.022.438	
31 37643000	REMOTEBACKUP = (REMOTEBACKUPAV).MVALUE # %	37643000 34.022.438	В
32 37643100	,REMOTEAUDIT = (REMOTEAUDITAV).MVALUE # %	37643100 34.022.438) 3:
33 37643200	,COMPILERCODEFILE = (COMPILERCODEFILEAV).MVALUE #	37643200 34.022.438	3:
34 37643300	,CHECKPOINTFILE = (CHECKPOINTFILEAV).MVALUE #	37643300 34.022.438	34
35 37643400	.CPJOBFILE = (CPJOBFILEAV).MVALUE #	37643400 34.022.438	3:
36 37643500	DCPCODE = (DCPCODEAV) MVALUE #	37643500 34.022.438	30
37 37643700	DECOVED THE = (DECOVED THEAV) MVALUE #	37643700 34.022.438	<u> </u> Z
38 37643800	CONTROL FOR THE - (CONTROL FOR FAX) MYALUE #	07040700 04.022.438	٦,
: :	,SCHEDULEFILE - (SCHEDULEFILEAV).MVALUE #	37643800 34.022.438	133
39 37643900	, INFOFILE = (INFOFILEAV). MVALUE #	37643900 34.022.438	3
40 37644000	,BACKUPPUNCH = (BACKUPPUNCHAV).MVALUE # % ,REMOTEBACKUP = (REMOTEBACKUPAV).MVALUE # % ,REMOTEAUDIT = (REMOTEAUDITAV).MVALUE # % ,COMPILERCODEFILE = (COMPILERCODEFILEAV).MVALUE # ,CHECKPOINTFILE = (CHECKPOINTFILEAV).MVALUE # ,CPJOBFILE = (CPJOBFILEAV).MVALUE # ,DCPCODE = (DCPCODEAV).MVALUE # ,RECOVERYFILE = (RECOVERYFILEAV).MVALUE # ,SCHEDULEFILE = (SCHEDULEFILEAV).MVALUE # ,INFOFILE = (INFOFILEAV).MVALUE # ,INFOFILE = (INFOFILEAV).MVALUE # ,INTRINSICFILE = (INTRINSICFILEAV).MVALUE #	37644000 34.022.438	140
41 37644100	,INTRINSICFILE = (INTRINSICFILEAV).MVALUE #	37644100 34.022.438	4
42 37644200	,MCPCODEFILE = (MCPCODEFILEAV).MVALUE #	37644200 34.022.438	4:
43 37644300	,ALGOLCODE = (ALGOLCODEAV).MVALUE #	37644300 34.022.438	11- 11- 11- 11- 11- 11- 11- 11- 11- 11-
44 37645000	,DCALGOLCODE = (DCALGOLCODEAV).MVALUE #	37645000 34.022.438	4.
45 37645300	,JOBCODE = (JOBCODEAV).MVALUE #	37645300 34.022.438	الط
46 37645400	,DMALGOLCODE = (DMALGOLCODEAV).MVALUE #	37645400 34.022.438	——[i
1 1			F
47 37645600	CODEFILE = (CODEFILEAV).MVALUE #	.37645600 34.022.438	1 4.
48 37646000	,BOUNDCODE = (BOUNDCODEAV).MVALUE #	37646000 350812184	
49 37647900	,FIRMWARE = (FIRMWAREAV).MVALUE # % DISK PACK FIRMWARE FILE		—— ₄
50 37648000	,DATA = (DATAAV).MVALUE #	37648000 34.022.438	5 5
51 37648100	,SEQDATA = (SEQDATAAV).MVALUE #	37648100 34.022.438	5
52 37648500	,CDATA = (CDATAAV).MVALUE #	37648500 34.022.438	5
53 37648700	,DBRESTARTSET = (DBRESTARTSETAV).MVALUE #	37648700 34.022.438	5
54 37648800	,DBDATA = (DBDATAAV).MVALUE #	37648800 34.022.438	E
55 37648900	,DATAKIND(T) = (T GEQ DATA) #	37648900 290379	
			5
56 37649000	,NONEXEC(T)=(T GEQ LIBRARYCODE AND T LEQ MCPCODEFILE) #	37649000 DISKFILE	þ
57 37649100	,SYMBOLFILE(T)=(T GEQ ALGOLSYMBOL AND T LSS RSNETFILE) #	37649100 270515	5
58 37649200	,DANGEROUS(T)= (T EQL BOOTCODE OR	37649200 350731899	5
59 37649250	(T GEQ COMPILERCODEFILE AND	37649250 350731899	5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
60 37649300	T LEQ CODEFILE AND T NEQ INFOFILE)) #	37649300 350731899	6
			

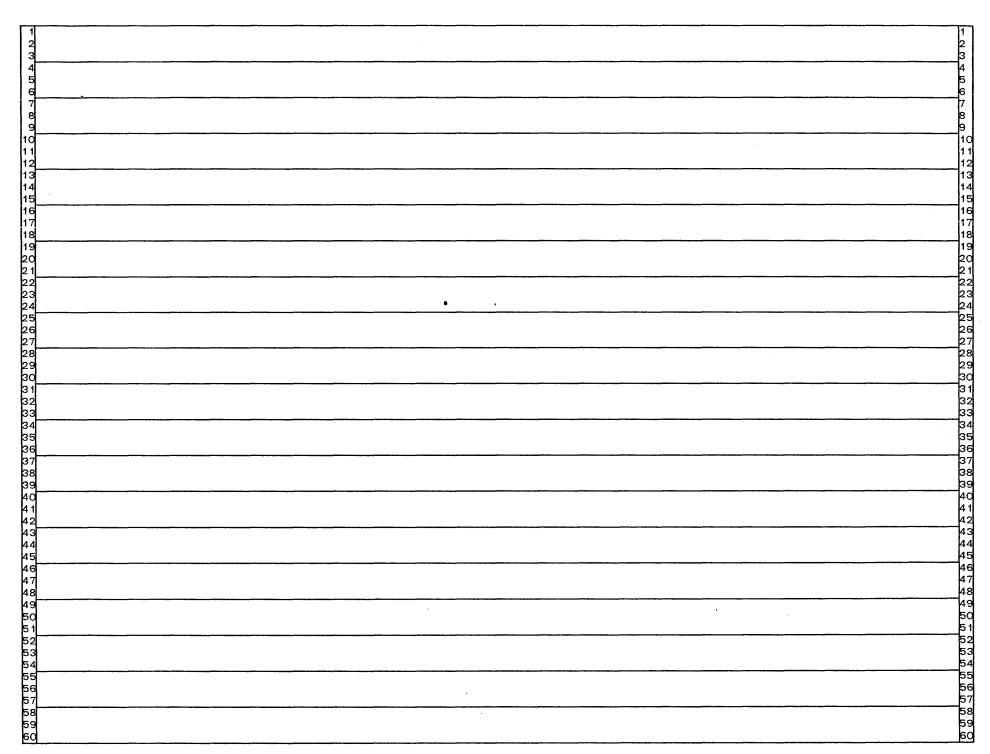
- 21	27640400	Of DANGEBOUG STUDY APP TUDGE THE STUDY OF STUDY STATES	07010100	07 0147	
	37649400	% DANGEROUS FILES ARE THOSE WHICH CAN BE SYSTEM FATAL		270147	[1
14	37649500	% IF THEY BECOME CORRUPTED		270147	2
13	37649600	%DISK FILE ACESS MODES		22.000.265	3
4	37649700	,SHARED = O #	37649700		4
5	37649800	,EXCLUSIVE = 1 #	37649800		5
6	37649900	,INPUTONLY = 2 #	37649900	22.000.265	6
7	37650000	,OUTPUTONLY= 3 #	37650000	22.000.265	7
8	37650100	% MNEMONICS FOR FILEORGANIZATION ATTRIBUTE	37650100	31.163.604	18
9	37650200	NOTRESTRFO = O #		31.163.604	9
lid	37650300	RELATIVEFO = 1 #	37650300		1
111	37650350	,INDEXEDFO = 2 #		331221137	i
اداا	37650500	,INDEXEDNOTRESTRFO = 3 # % ISAM FILE WITH RELATIVE KEYS.	37650500		1
다하	37650600	% INFORMER CODE FOR CALLS ON JEDGARHOOVER	37650600		
1,3		·			
[]#	37650700	OPENSECURITY = O #		21.000.003	1 1 1
l'a	37650800	,DIDDLERSECURITY = 1 #		21.000.003	
119	37650900	,ENTERFILESECURITY = 2 #	37650900		1
[17]	37651000	,DOCTORSECURITY = 3 #		21.000.003	[1
18	37651100	,USERDATASECURITY = 4 #		23.001.507	1
119	37651200	,ATTRIBUTESECURITY = 5 #	37651200	21.000.003	1
20	37651300	,LRSECURITY = 6 #	37651300	21.000.003	½
þ 1	37651400	,LIBRARY1 = 7 #	37651400	21.000.003	2
22	37651500	,LIBRARY2 = 8 #	37651500	21.000.003	b
23	37651600	,NEWFIBBER = 9 #		21.000.003	5
54	37651700	,ILLEGALCOL = 10 #	37651700		ĥ
64	37651800	,BDFILESECURITY = 11 #	37651800	290055	<u>-</u>
26	37651900	% FILE SECURITY CLASSES	37651800	21.000.003	Ľ,
53					Ľ
Ľඨ	37652000	,CLASSA = 0 #		21.000.003	
KA	37652100	,CLASSB = 1 #	37652100	21.000.003	[2
29	37652200	,CLASSC = 2 #	37652200		p
Bd	37652300	,PRIVATE = 3 #	37652300	21.000.003	3
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1 USD/ 2 3	MEMDUMP/EXAMPLE (11/08/84)	3:00 PM TUESDAY, APRIL 9, 1985	
BEGI	· · · · · · · · · · · · · · · · · · ·		
BEGI	.n REAL		
	R1		
	,R2		
	,R3		
	,R4		
	;		
	EBCDIC ARRAY EB [0:179];		
1	ARRAY A[O] = EB;		
	PROCEDURE CAUSEFINALFAULT;		
	BEGIN		
ł	·		
\$	REPLACE POINTER(A) BY "THIS SHOULD CAUSE AN ERROR"		
1	FOR 32 WORDS; % SEG ARRAY		
1			
J	END;		
j i	DDOCEDURE CALICEFIRETEAU T.		
1	PROCEDURE CAUSEFIRSTFAULT; BEGIN		
}	DCQIM		
3	R1:=R2/R3; % DIV ZERO		
-	MIT NEW TO SET LENG		
	END;		
*			
:L	INTERRUPT AINT;		
1 2 3 4 5 5 7 8 9 0 1 1 2 3 3 4 5 5 7 8 9 0 0 1 1 2 3 3 4 5 5 6 7 7 8 9 0 0 1 1 2 3 3 4 5 6 6 7 7 8 9 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BEGIN		
2	OLUGERANIA FALIL T		
1	CAUSEFINALFAULT;		_
#	END;		
1	LIND,		
}	EPILOG PROCEDURE EP;		
\$	BEGIN		
3			
) · · · ·	ENABLE INT;		
1	ON ANYFAULT,		
<u>"</u>	WAIT(MYSELF.EXCEPTIONEVENT);		
1	CAUSEFIRSTFAULT;		
]	END;		
}	LITU		
7	RESET(MYSELF.EXCEPTIONEVENT);		
1 2 3 3 4 5 5 7 7	ATTACH INT TO MYSELF.EXCEPTIONEVENT;		
*	DISABLE INT;		
<u> </u>	END.		
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STACKDUMP FOR STACK 088 MIX NUMBER 2575/2701	3
4 5 NAME: (LFPROG)OBJECT/JSD/MEMDUMP/EXAMPLE. 6	4 5 6
7 8	7 8 9
DISPLAY: SEG ARRAY ERROR @ (00001300)* 11	1
12 LOCK STATUS: (NONE FOUND) 13 STACK KIND: TASK STACKINFO = 0 004801 780000 14 STACKSTATUS = 0 FFF342 F13910	¦
15 STATUS: ALIVE DSED 16 PROCESS TYPE: PROCESS LANGUAGE: DCALGOL 35.220	
16 PROCESS TYPE: PROCESS LANGUAGE: DCALGOL 35.220 17 18 BOSR=338D6 LOSR=33AFE LENGTH=00228 (552) 19	1
20(0083 (01,0003) 1 570A55 C95CFO 0P: BCL:E RESET	1 2
21 0082 (01,0002) 0 CD5A64 665473 22 0081	2
SEG DESC: 3 880017 77BD65 PROCESSKILL	2
CODE: 3 CD5A64 665473 3 BEFFFF FFFFFF 3 570A55 C95CFO >3 B195B4 ABB235< 3 95B840 CBA5B2 25 OO80D[O1]=>3 CO8OOO 804OO9 *MSCW: PREVIOUS MSCW @ OO77; D[O]=OOO8 IN STACK OO8	$\frac{2}{2}$
25 0080D[01]=>3 C08000 804009 *MSCW: PREVIOUS MSCW @ 0077; D[0]=0008 IN STACK 008 26 27 007F (01,0008) 5 C00034 7338D6 DESC [PRESENT-COPY]: DATA, LENGTH=839 (POINTS @ OFFSET=0000 IN THIS STACK)	2
28 007E (01,0007) 0 000000 000000	
29 007D (01,0006)	2 2 3
31 007B (01,0004) 0 000000 000000	3
33 0079 (01,0002) 0 000000 000014	3 3
32 007A (01,0003) O FFFFFF FFFFFF 33 0079 (01,0002) O 000000 000014 34 0078	3 3
CODE: 3 60ADAB B23595 3 B840CB A5B260 3 A6B7BD 9E27B6 >3 B8AE40 3AABB5< 3 A3A3FF FFFFF 37 0077D[01]=>3 C08000 804008 *MSCW: PREVIOUS MSCW @ 006F; D[0]=0008 IN STACK 008	3
38 39 0076 (01,0007) 7 088224 308C72 PCW	3
40 0075 (01,0006) 0 000000 000004	
41 0074 (01,0005) 0 000000 00000E 42 0073 (01,0004) 0 000000 000003	4
43 0072 (01,0003) O AB23EO 0D3038	4
44 0071 (01,0002) 0 000009 000400 ******* SEGMENTED ARRAY *********************************	*****4 4
46 CODE FILE NOT AVAILABLE: (LFPROG)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK.	4
CODE FILE NOT AVAILABLE: (LFPR0G)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK. SEG DESC: 3 800002 89F403 CODE: 3 A2A012 B05007 3 A6B204 9C2A03 3 B06004 A6962A >3 B220D3 A31003< 3 100483 5002B8 PROPERTY OF THE NOT AVAILABLE: (LFPR0G)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK. SEG DESC: 3 800002 89F403 CODE: 3 A2A012 B05007 3 A6B204 9C2A03 3 B06004 A6962A >3 B220D3 A31003< 3 100483 5002B8 PROPERTY OF THE NOT AVAILABLE: (LFPR0G)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK. SEG DESC: 3 800002 B80000	4
49 0000:0 NVLD FF	4
50 0000:1 NAMC 02,0006 5006 51 0000:3 LOAD BD	4 5 5 5 5 5 5 5 5 5 5 5
52 0000:4 LT8 1E(30) B21E	5
53	 5
55	5
56	5
58	5
60 0003:1 LT8 04(4) B204	6

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1 2		0004:0 ZER0		во	b!
12			~ 4		E !
13		0004:1 NAMC 01,000	04	6004	
4		0004:3 INDX		A6	~ □4
12		0004:4 BSET 42		962A	L.
19					Р
16		0005:0 LT8 20(32)	B220	16
1 7	>>>>>	0005:2 TWSD		D3	٦,
1 4					Ľ
18		0005:3 EXIT		A3	18
19		0005:4 VALC 02,000	03	1003	19
1.7		0006:0 VALC 02,00		1004	$\dashv i$
1'9			U 4		110
1 1		0006:2 DIVD		83	111
112		0006:3 NAMC 02,00	റാ	5002	12
1:5			<u> </u>		-1:5
13		0006:5 STOD		B8	13
114		0007:0 EXIT		A3	114
15		0007:1 BRUN 0008:	2	A26008	11.
			<u> </u>		
116		0007:4 MKST		AE	116
147		0007:5 NAMC 02,00	റ	5008	147
1:1		0007.0 HAMO 02,00	. J		1! /
18]18
119	006F	D[01]=>3 C0800	0 804005	*MSCW: PREVIOUS MSCW @ OO6A; D[O]=OO08 IN STACK OO8	719
ha					1.5
44		(Pυ
21		(03,0004) 0 00000			21
bol	0060	(03,0003) 5 FC000	O 5AR239	DESC [PRESENT-COPY]: STRING (8-BIT), INDEX=5+O, READONLY (MOM @ OFFSET=0008 IN SEGDICT)	-روا
L'A					6-
43				DESC [PRESENT-COPY]: STRING (8-BIT), INDEX=5+O (MOM @ OFFSET=OO1A IN THIS STACK)	123
24	006B	3 00040	O 80E003	RCW: LL=3, NORML STATE [USER SEGMENT @ 0003:0008:2]	24
bd				SEG DESC: 3 800002 B9F403	− <u>-</u> -
121					25
26				CODE: 3 B220D3 A31003 3 100483 5002B8 3 A3A260 08AE50 >3 08ABA3 AE6005< 3 500CAF ABBEFF	126
b7	0064	D[03]=>3 48800	1 400002	*MSCW: PREVIOUS MSCW @ 0068; D[2]=0014 IN THIS STACK	b7
5	OUGH	D[00] - 0 10000	1 .00002	Model - INEVIDED Mach C COCC, D[2] GOT - IN THIS STARK	-5
۲a					28
29	0069	3 00020	C E84C88	RCW: LL=1, CNTRL STATE [MCP SEGMENT @ OC88:OOCE:1 (12908400)]	29
βd				SEG DESC: 3 88000D BAF570 PROCESSOFTWAREINTERRUPTS	20
24					
31				CODE: 3 9613B3 0A009C 3 2F0CB2 0695B4 3 6008BA AE6007 >3 ABB060 08BAA2< 3 A003B2 4F6005	31
Bəl	0068	D[03]=>3 48800	1 400009	*MSCW: PREVIOUS MSCW @ 005F: D[2]=0014 IN THIS STACK	32
	0000	5[00] 10 10000		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22
193					33
34	0067	(01.0008) 6 A0040	C F84C88	SCW: (BLOCK BELOW DECLARED INTERRUPTS, SNGL-DIM ARRAYS, LIBRARY TEMPLATE)	134
35				SIRW: OFFSET=0020 (0014+000C) IN THIS STACK	25
				31K#. 0113E1-0020 (0014-0000) IN 11113 31ACK	53
136	0065	(01,0006) 0 00000	0 000000		36
37	0064	(01,0005) 5 COOOO	8 34917A	DESC [PRESENT-COPY]: DATA, LENGTH=131 (MOM NOT OF THIS STACK OR SEGDICT)	37
اموا					کم
38				(UNINITIALIZED VARIABLE)	၂၁႘
39	0062	(01,0003) 6 00000	000000	(UNINITIALIZED VARIABLE)	139
40	0061	(01.0002) 6 00000	0.000000	(UNINITIALIZED VARIABLE)	- 40
					Γ.Υ
41	0060	3 00021	3 C88CCE	RCW: LL=2, CNTRL STATE [MCP SEGMENT @ OCCE:013C:1 (23992040)]	 4 1
42				SEG DESC: 3 880017 B7BEEO INNERCEDE OF INTERCEDE	14 15 16 17 18 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
ادما				CODE: 3 1AB6B8 B040A1 3 B80019 A0613B 3 B0958F AE426B >3 ABA280 O5B235< 3 95B840 CBA5B2	43
[7]		D[04]			Γ.
144	OOSE	n[01]=>3 CO800	0 804004	*MSCW: PREVIOUS MSCW @ 005B; D[0]=0008 IN STACK 008	4 4
45					45
100	OOFF	(02,0003) 0 00000	0.00000		746
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47	005D	(02,0002) 0 00000			μ7
4.8	005C	3 00082	8 984BCF	RCW: LL=1, CNTRL STATE [MCP SEGMENT @ OBCE:0289:4 (24001200)]	44 45 46 47 48
	0000	0 00082	3 30 700L	THE PROPERTY OF THE PROPERTY O	⊣ ∵
49				SEG DESC: 3 A00036 C076FB INTERCEDE	- 49
5 d				CODE: 3 95BCB6 BAB230 3 6003A6 B795BC 3 B09C2F 23B6BA >3 AE6006 ABA3A3< 3 B0B0B0 B0B0B0	50
L 4	005B	D[02]=>3 48800	5 408007	*MSCW: PREVIOUS MSCW @ 0054; D[1]=0054 IN THIS STACK	5 1
Ľ.'	0000	D[02]-/3 40800	3 400007	"MUON. TREVIOUS MISON & COUST, DELITOOST IN THIS STACK	—Ľ'
p 2					5 2
53	0054	(01,0006) 7 08800	O 088CCE	PCW	53
E.1					Ĕ
P4			0 000004		P4
55	0058	(01,0004) 6 00000	0 000000	(UNINITIALIZED VARIABLE)	55
56			8 34917A	DESC [PRESENT-COPY]: DATA, LENGTH=131 (MOM NOT OF THIS STACK OR SEGDICT)	56
		•		DESC [FRESENT COFT]. DATA, LENGTH-131 (MOM NOT OF FILE STACK OR SEGULCT)	۲
57	0056		0 000003		j57
58		3 02020	O F12003	RCW: LL=4, NORML STATE [USER SEGMENT @ OOO3:000F:1]	51 52 53 54 55 56 57 58 60
E7		0 02020			E
PA				SEG DESC: 3 800002 B9F403	ba
59 60				CODE: 3 BAA240 OFAE60 3 O6AE60 07AE60 3 08ABB2 15ABB0 >3 ABA3AE 5009AB< 3 A3A240 OFBOBF	60

□ 4	0054	D[01]->3	000000	904004	*MSCW: PREVIOUS MSCW @ 0050; D[0]=0008,IN STACK 008	14
2	0054	0[01]->3		004004	*MSCW: PREVIOUS MSCW @ 0030; D[01-0008,IN STACK 008	13
3	0053	(04,0003)	000000	000001		3
4		(04,0002) C				4
5	0051	3	020803	784CDD	RCW: LL=1, CNTRL STATE [MCP SEGMENT @ OCDD:0037:4 (24643400)]	5
6	L				SEG DESC: 3 A00004 807EC9 FAULTHANDLER	6
7					CODE: 3 089AOC 01AO40 3 36AE60 05ABA2 3 8037AE 600520 >3 032002 ABB060< 3 06BA60 04B235	7
8	0050	D[O4]=>3	488003	61000B	*MSCW: PREVIOUS MSCW @ 0045; D[3]=0036 IN THIS STACK	8
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ו ו		(01,0009)				11:
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18			000000			18
19	0046		000624		RCW: LL=1, CNTRL STATE [MCP SEGMENT @ OC72:0247:3 (11382600)]	19
20					SEG DESC: 3 A00025 D014EC HARDWAREINTERRUPT68	20
21					CODE: 3 000224 308C72 3 B4AE40 392005 3 B195B8 B22595 >3 B881AB 2005B2< 3 038CAO A24D20	21
20 21 22 23 24	0045	D[O1]=>3	C08000	804008	*MSCW: PREVIOUS MSCW @ OO3D; D[O]=OOO8 IN STACK OO8	722
23	0041	(04 0007) -		000000	DOM:	20 21 23 24 24 25 26
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26			000000			25
27			000000			92
28		(01,0003)				— "გ
29			000009		****** DIVIDE BY ZERO	28 *** 29
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31					SEG DESC: 3 800002 B9F403	31
31 32					SEG DESC: 3 800002 B9F403 CDDE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50	31 32
31 32 33		0001:0 INSR	42:23			31 32 33
31 32 33 34		0001:3 NAMC	02,0007		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007	31 32 33 34
31 32 33 34 35		0001:3 NAMO 0001:5 OVRD	02,0007		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA	31 32 33 34 35
30 31 32 33 34 35 36		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN	02,0007 1 1 0012:5		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012	31 32 33 34 35
37		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO	02,0007 1 1 0012:5		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0	31 32 33 34 35 36
37		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO	02,0007 1 0012:5 1 02,0007		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007	31 32 33 34 35 36 37
37 38 39		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX	02,0007		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6	31 32 33 34 35 36 37 38
37 38 39 40		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX	02,0007 1 0012:5 02,0007		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6 B204	31 32 33 34 35 36 37 38 39
37 38 39 40 41 42		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX	02,0007 1 0012:5 02,0007 04(4) 42:3		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6	31 32 33 34 35 36 37 38 39 40 41
37 38 39 40 41 42		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0003:3 INSR	02,0007 1 0012:5 02,0007 04(4) 42:3	,	CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 BO 5007 A6 B204 9C2A03	30 31 32 33 34 35 36 37 38 39 40 41 42
37 38 39 40 41 42 43		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERO	02,0007 1 0012:5 02,0007 04(4) 42:3	,	CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 BO 5007 A6 B204 9C2A03 B0	31 32 33 34 35 36 37 38 39 40 41 42
37 38 39 40 41 42 43 44 45		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERO 0004:1 NAMO 0004:3 INDX 0004:4 BSET	02,0007 1 0012:5 02,0007 04(4) 42:3	,	CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6 B204 9C2A03 B0 6004 A6 962A	43 44 45
37 38 39 41 42 43 44 45 46		0001:3 NAMC 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMC 0003:0 INDX 0003:1 LT8 0004:0 ZERO 0004:1 NAMC 0004:3 INDX 0004:4 BSET 0005:0 LT8	02,0007 1 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32)	,	CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6 B204 9C2A03 B0 6004 A6 962A B220	43 44 45
37 38 39 41 42 44 45 46 47		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERO 0004:1 NAMO 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSD	02,0007 1 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32)	,	CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 BO 5007 A6 B204 9C2A03 B0 6004 A6 962A B220 D3	43 44 45
37890442 4444444444444444444444444444444444		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERO 0004:1 NAMO 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSD	02,0007 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32)	,	CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 O8AE50 9C2A17 5007 BA A2A012 BO 5007 A6 B204 9C2A03 BO 6004 A6 962A B220 D3 A3	43 44 45 46 47 48
37890442 4444444444444444444444444444444444		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0004:0 ZERO 0004:1 NAMO 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSD	02,0007 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32)	3	CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 BO 5007 A6 B204 9C2A03 B0 6004 A6 962A B220 D3 A3 A3 A3 A3 A3 A3 A3 A3 A3 A3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3	43 44 45 46 47 48
3789 4443 445 447 449 50		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERO 0004:1 NAMO 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSD 0005:3 EXIT	02,0007 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32)	3	CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6 B204 9C2A03 B0 6004 A6 962A B220 D3 A3 A3 A3 A3 A3 A3 A3 A3 A3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3	43 44 45 46 47 48
3789 4443 445 447 449 50		0001:3 NAMC 0001:5 OVRE 0002:0 BRUN 0002:3 ZERG 0002:4 NAMC 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERG 0004:1 NAMC 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSE 0005:3 EXIT 0005:4 VALC 0006:0 VALC	02,0007 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32)		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6 B204 9C2A03 B0 6004 A6 962A B220 D3 A3 A3 10004 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3 B3	43 44 45 46 47 48
3789 4443 445 447 449 50		0001:3 NAMC 0001:5 OVRD 0002:0 BRUN 0002:3 ZERC 0002:4 NAMC 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERC 0004:1 NAMC 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSD 0005:3 EXIT 0005:4 VALC 0006:0 VALC 0006:2 DIVD	02,0007 1 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32) 02,0004		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6 E204 9C2A03 B0 60004 A6 962A B220 D3 A3 1003 1004 83	43 44 45 46 47 48
3789 4443 445 447 449 50		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERO 0004:1 NAMO 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSD 0005:3 EXIT 0005:4 VALO 0006:0 VALO 0006:2 DIVD 0006:3 NAMO 0006:5 STOD	02,0007 1 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32) 02,0003 02,0004		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6 E204 9C2A03 B0 6004 A6 962A B220 D3 A3 1003 1004 83 5002 B8	43 44 45 46 47 48
3789 4443 445 447 449 50		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERO 0004:1 NAMO 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSD 0005:2 TWSD 0005:3 EXIT 0005:4 VALO >0006:0 VALO >0006:5 STOD 0006:5 STOD	02,0007 1 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32) 02,0004		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 B0 5007 A6 E204 9C2A03 B0 60004 A6 962A B220 D3 A3 1003 1004 83	43 44 45 46 47 48
3789 4443 445 447 449 50		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERO 0004:1 NAMO 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSD 0005:2 TWSD 0005:3 EXIT 0005:4 VALO >0006:0 VALO >0006:5 STOD 0006:5 STOD	02,0007 04(4) 42:3 01,0004 42 20(32) 02,0003 02,0004		CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 5007 BA A2A012 BO 5007 A6 B204 9C2A03 BO 6004 A6 962A B220 D3 A3 B3 1003 B200 B200 B3 A3 B200 B3 A3 B2003 A31003 >3 100483 5002B8< 3 A3A260 08AE50	43 44 45 46 47 48
3789 443 445 445 445 445 445 445 445		0001:3 NAMC 0001:5 OVRE 0002:0 BRUN 0002:3 ZERC 0002:4 NAMC 0003:0 INDX 0003:1 LT8 0003:3 INSR 0004:0 ZERC 0004:1 NAMC 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:0 LT8 0005:2 TWSD 0005:3 EXIT 0005:4 VALC 0006:0 VALC 0006:5 STOD 0006:5 STOD 0007:0 EXIT	02,0007 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32) 02,0004 02,0004	3	CODE: 3 A68204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 BA A2A012 BO 5007 A6 E204 9C2A03 B0 6004 A6 962A B220 D3 A3 A3 1003 1004 83 A26008	43 44 45 46 47 48
3789 443 445 445 445 445 445 445 445		0001:3 NAMC 0001:5 OVRE 0002:0 BRUN 0002:3 ZERC 0002:4 NAMC 0003:0 INDX 0003:1 LT8 0004:0 ZERC 0004:1 NAMC 0004:3 INDX 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSE 0005:3 EXIT 0005:4 VALC 0006:0 VALC >0006:2 DIVE 0006:3 NAMC 0006:5 STOE 0007:1 BRUN 0007:4 MKST	02,0007 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32) 02,0004 02,0004	3	CODE: 3 A68204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 SOO7 BA A2A012 BO 5007 A6 B204 9C2A03 B0 6004 A6 962A B220 D3 A3 A3 A3 A3 A3 A3 A3 A3 A3 A3 A3 A3 A3	43 44 45 46 47 48
37890442 4444444444444444444444444444444444		0001:3 NAMO 0001:5 OVRD 0002:0 BRUN 0002:3 ZERO 0002:4 NAMO 0003:0 INDX 0003:1 LT8 0004:0 ZERO 0004:1 NAMO 0004:3 INDX 0004:4 BSET 0005:0 LT8 0005:2 TWSD 0005:2 TWSD 0005:3 EXIT 0006:0 VALO >0006:0 VALO >0006:5 STOD 0006:5 STOD 0007:0 EXIT 0007:4 MKST 0007:4 MKST	02,0007 0012:5 02,0007 04(4) 42:3 01,0004 42 20(32) 02,0004 02,0004	3	CODE: 3 A6B204 9C2A03 3 B06004 A6962A 3 B220D3 A31003 >3 100483 5002B8< 3 A3A260 08AE50 9C2A17 BA A2A012 BO 5007 A6 B204 9C2A03 B0 6004 A6 962A B220 D3 A3 1003 1004 83 5002 B8 A3 A26008 AE 5008	43 44 45 46 47

1 0008:4 NAMC 01,0005 6005	11
	l'2
3 003DD[01]=>3 C08000 804003 *MSCW: PREVIOUS MSCW @ 003A; D[0]=0008 IN STACK 008	· B
14	4
5 003C (03,0002) 0 000000 000000	a
6 003B 3 000001 00E003 RCW: LL=3, NORML STATE [USER SEGMENT @ 0003:0010:0]	6
7 SEG DESC: 3 800002 B9F403	ק
8 CODE: 3 06AE60 07AE60 3 08ABB2 15ABB0 3 ABA3AE 5009AB >3 A3A240 OFBOBF<	3 000800 C12003 8
9 003AD[03]=>3 488001 40C004 *MSCW: PREVIOUS MSCW @ 0036; D[2]=0014 IN THIS STACK	9
100 (00 0000) 7 000000 040000 DCW	11'
11 0039 (03,0003)	1.
13 0037 3 000806 684CD8 RCW: LL=1, CNTRL STATE [MCP SEGMENT @ OCD8:0066:4 (2453	1400)]
14 SEG DESC: 3 880016 1FD41E BLOCKEXIT	1400)]
CODE: 3 6A2009 9A1401 3 A00066 AE6004 3 B0ABB5 A28066 >3 AE6004 ABB234<	3 B22695 B8B225
16 0036D[03]=>3 488001 40C012 *MSCW: PREVIOUS MSCW @ 0024; D[2]=0014 IN THIS STACK	11
1171	11
18 0035 (01,0011) 6 A00A06 A84CD8 SCW: (BLOCK BELOW DECLARED INTERRUPTS, SNGL-DIM ARRAYS, LIBRARY TEMPLATE)	1
19 0034 (01,0010) 7 088000 000000 PCW	11
20 0033 (01,000F) 0 000000 000000	þ 2
21 0032 (01,000E) 0 000000 000000	2
22 0031 (01,000D) 0 000000 000000	٤
23 0030 (01,0000) 0 000000 000000	2
24 002F (01,000B) 0 000000 000000 25 002E (01,000A) 0 000000 000014	
25 002E (01,000A) 0 000000 000014 26 002D (01,0009) 0 800000 204800	E.
28 0020 (01,0009)	,
28 002B (01,0008) 5 COFFFF F338EA DESC [PRESENT-COPY]: DATA, LENGTH=1048575 (POINTS @ OFFSET=0014 IN THIS STACK)	
29 002A (01,0006) 0 000000 000000	5
30 0029 (01,0005) 0 000000 000000	3
31 0028 (01,0004) 1 488001 40000E SIRW: DFFSET=0022 (0014+000E) IN THIS STACK	3
32 0027 (01,0003) 5 000022 8338D6 DESC [PRESENT-COPY]: DATA, LENGTH=552 (POINTS @ OFFSET=0000 IN THIS STACK)	B
33 0026 (01,0002) 0 000000 00000F	з
34 0025 3 000201 A0A003 RCW: LL=2, NORML STATE [USER SEGMENT @ 0003:001A:1]	3
SEG DESC: 3 800002 B9F403	3
CODE: 3 B215AB 500CAF 3 B0ABAE 600B50 3 OCAFAB AE600C >3 ABA3BO B0B0B0<	3 3 BEFFFF FFFFFF 3 3
37 0024D[01]=>3 C08000 804010 *MSCW: PREVIOUS MSCW @ 0014; D[0]=0008 IN STACK 008	ਬ ਕ
පිපි 39 0023 (02,000F) 6 800000 004800 SCW: (BLOCK BELOW DECLARED INTERRUPTS, SNGL-DIM ARRAYS)	3:
40 0022 (02,000F) 7 088801 00E003 PCW	B
41 0021 (02,000L) 7 088801 00E003 PCW	4
42 0020 (02,000C) 7 888800 70E003 PCW	lá.
43 OO1F (02,000B) 5 E10002 94917A DESC [PRESENT-COPY]: DATA, INDEX=41, DOUBLE (MOM NOT OF THIS STACK OR SEGDICT)	4
44 001E (02,000A) 0 000000 000000	4 .
45 001D (02,0009) 7 088800 50E003 PCW	4
46 001C (02,0008) 7 088600 20E003 PCW	4
47 001B (02,0007) 5 C00001 EC267B DESC [PRESENT-COPY]: DATA, LENGTH=30 (MOM @ OFFSET=001A IN THIS STACK)	4
48 001A (02,0006) 5 84000B 4C267B DESC [PRESENT-MOM]: STRING (8-BIT), LENGTH=180	4. 4
49 0019 (02,0005) 0 000000 000000	
50 0018 (02,0004)	5 5
51 0017 (02,0003) 0 000000 000000 52 0016 (02,0002) 0 000000 000000	
	2000)]
53 0015	2000)]
55 CODE: 3 BEFFFF FFFFFF 3 4A6870 C30C30 3 ABA3AE 400AAB >3 A3B234 B22695<	5 2000)] 5 3 B8B180 95B9A2 5 5 5 5
56 0014D[02]=>3 C8A000 408002 *MSCW: PREVIOUS MSCW @ 0012; D[1]=0004 IN STACK 08A	5
57	5
58 0013 3 000000 002000 RCW: DUMMY (RUN)	5
DEL COLO DE COCOGO COCOGO NOTE E DOURE (NOTE)	
59 0012D[02]=>3 F84917 A08011 *MSCW: PREVIOUS MSCW @ OOO1; D[1]=917A IN STACK 384	5

1 0011						
3 000F						ון
GOOGE						2
S 0000						
C OOCC						4
0006						p
S 000A 5 00000 00000 0 SEGMITARRAY S 9 0009 0 00000 00000 00000 00000 0 DATIPESC S 9 00090 0 00000 0 DATIPESC S 11 0007 0 000000 000000 0 ATIPESC S 11 0007 0 000000 000000 0 ATIPESC S 11 00090 00000 0 DATIPESC S 11 00090 00000 0 DATIPESC S 12 00090 00000 0 DATIPESC S 13 00090 00000 0 DATIPESC S 14 00090 00000 0 DATIPESC S 14 00090 00000 0 DATIPESC S 14 00090 00000 0 DATIPESC S 14 00090 00000 0 DATIPESC S 14 00090 00090 0 DATIPESC S 15 00090 00090 0 DATIPESC S 15 00090 00090 0 DATIPESC S 15						°
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10 0008						B
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15 0003						113
16 GOO2						114
17 0001	ļ					
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19						11.7
21 22 00 3 COBCOO 804000 PIBMSCW 23 01 0 000000 000001 ACTUALBOXES 24 02 0 000000 000001 ACTUALBOXES 25 03 0 000000 200001 ACTUALBOXES 26 04 0 000000 1100DE COBEININS SEG DICT = 08A 27 05 0 000000 00036A COBEINUSE = 17947870 26 04 0 000000 1100DE COBEINISERAL = 17947870 27 05 0 000000 00036A COBEINUSE = 90B 28 06 0 000000 00036A COBEINUSESAVED = 874 29 07 0 000000 000000 FDRCEDDILAYTIME 29 08 0 000000 000000 FDRCEDDILAYTIME 29 PROGRAMDUMPGRAPH: 29 PROGRAMDUMPGRAPH: 30 08 0 000000 000000 FDRCEDDILAYTIME 31 2 PROGRAMDUMPGRAPH: 32 PROGRAMDUMPGRAPH: 33 08A ((LFPROG)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK.) 34 08 0 000000 000000 DLAYCHIL 35 08A ((LFPROG)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK.) 36 0A 0 000000 000000 SEARCHINFO 37 0B 0 000000 000000 SUBSPACEID = 8 38 0C 0 000000 000000 SEARCHINFO 38 0C 0 000000 000000 SUBSPACEID = 8 39 0D 0 000000 000000 SUBSPACEID = 8 30 0D 0 000000 000000 SUBSPACEID = 8 31 0F 10 0 000000 000000 SUBSPACEID = 8 32 0D 0 000000 000000 SUBSPACEID = 8 34 10 F-10 0 000000 000000 JTITLE MYEDDINAME FAMILYSUB 43 34 12-16 0 000000 000000 JTITLE MYEDDINAME FAMILYSUB 43 34 12-16 0 000000 000000 DEGTINBLE DESTIND DESTINAME HOSTNAME FAMILYSUB 43 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 45 34 12-15 800000 SOS93 ONDOOD DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 45 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 45 35 00000 000000 DEGTINBLE DESTIND VOURNAME 45 36 00000 000000 DEGTINBLE DESTIND VOURNAME 45 36 00000 000000 DEGTINBLE DESTIND VOURNAME 45 36 00000 000000 DEGTINDLE DESTINDLE DESTINDLE DESTINDLE DESTINDLE 45 36 000000 000000 DEGTINDLE DESTINDLE DESTINDLE DESTINDLE DEST	118	0000	0	000000 00	XXXXVV4 I U S G W U	
21 22 00 3 COBCOO 804000 PIBMSCW 23 01 0 000000 000001 ACTUALBOXES 24 02 0 000000 000001 ACTUALBOXES 25 03 0 000000 200001 ACTUALBOXES 26 04 0 000000 1100DE COBEININS SEG DICT = 08A 27 05 0 000000 00036A COBEINUSE = 17947870 26 04 0 000000 1100DE COBEINISERAL = 17947870 27 05 0 000000 00036A COBEINUSE = 90B 28 06 0 000000 00036A COBEINUSESAVED = 874 29 07 0 000000 000000 FDRCEDDILAYTIME 29 08 0 000000 000000 FDRCEDDILAYTIME 29 PROGRAMDUMPGRAPH: 29 PROGRAMDUMPGRAPH: 30 08 0 000000 000000 FDRCEDDILAYTIME 31 2 PROGRAMDUMPGRAPH: 32 PROGRAMDUMPGRAPH: 33 08A ((LFPROG)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK.) 34 08 0 000000 000000 DLAYCHIL 35 08A ((LFPROG)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK.) 36 0A 0 000000 000000 SEARCHINFO 37 0B 0 000000 000000 SUBSPACEID = 8 38 0C 0 000000 000000 SEARCHINFO 38 0C 0 000000 000000 SUBSPACEID = 8 39 0D 0 000000 000000 SUBSPACEID = 8 30 0D 0 000000 000000 SUBSPACEID = 8 31 0F 10 0 000000 000000 SUBSPACEID = 8 32 0D 0 000000 000000 SUBSPACEID = 8 34 10 F-10 0 000000 000000 JTITLE MYEDDINAME FAMILYSUB 43 34 12-16 0 000000 000000 JTITLE MYEDDINAME FAMILYSUB 43 34 12-16 0 000000 000000 DEGTINBLE DESTIND DESTINAME HOSTNAME FAMILYSUB 43 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 45 34 12-15 800000 SOS93 ONDOOD DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 44 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 45 34 12-16 0 000000 000000 DEGTINBLE DESTIND VOURNAME 45 35 00000 000000 DEGTINBLE DESTIND VOURNAME 45 36 00000 000000 DEGTINBLE DESTIND VOURNAME 45 36 00000 000000 DEGTINBLE DESTIND VOURNAME 45 36 00000 000000 DEGTINDLE DESTINDLE DESTINDLE DESTINDLE DESTINDLE 45 36 000000 000000 DEGTINDLE DESTINDLE DESTINDLE DESTINDLE DEST	19	CD T C) ''	Foron(cool	E 000000	A CALLEY MON O CALCA	119
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23 01 0 000000 000001 ACTUALBOXES 24 02 0 000000 000008 ACTUALBOXES 24 02 0 000000 000088 23000C COMPILERINFO 25 25 26 04 0 000001 11DCDE COREINTEGRAL = 17947870 26 27 05 0 000000 00038C COREINUSE = 908 27 28 06 0 000000 00038C COREINUSESAVED = 874 28 28 29 07 0 000000 000000 000000 000000	糕	00	0 000000 000	000 ==	VENEZU.	<u> </u>
24 02 0 000000 00008A CODELINKS SEG DICT = 08A 24	11					22
S						23
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28 06 0 000000 00036A CDREINUSESAVED = 874 29 07 0 000000 000000 FORCEDOLAYTIME 30 08 0 000000 000107 GRAPHHEADWORD 30 31 GRAPHS FOR STACK 088 29 PROGRAMDUMPGAPH: 31 32 PROGRAMDUMPGAPH: 33 08A ((LFPROG)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK.) 34 35 09 0 00000 00000				-		25
28 06 0 000000 00036A CDREINUSESAVED = 874 29 07 0 000000 000000 FORCEDOLAYTIME 30 08 0 000000 000107 GRAPHHEADWORD 30 31 GRAPHS FOR STACK 088 29 PROGRAMDUMPGAPH: 31 32 PROGRAMDUMPGAPH: 33 08A ((LFPROG)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK.) 34 35 09 0 00000 00000						20
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31						20
31						29
22 PROGRAMDUMPGRAPH: 33 O8A ((LFPROG)OBJECT/JSD/MEMDUMP/EXAMPLE ON DISK.) 34 34 35 O9 O 000000 000000 DLAYCNTL 35 O9 O 000000 O00000 SEARCHINFO 35 O0 000000 000000 SEARCHINFO 36 OC O 000000 000000 SUBSPACEID = 8 37 O8 O 000000 000000 SWAPHOLD 39 OC O 000000 000000 SWAPHOLD 39 OC O 000000 000000 SWAPHOLD 39 OC O 000000 000000 O00000 SWAPHOLD 39 OC O 000000 000000 O00000 SWAPHOLD 39 OC O 000000 000000 O00000 SWAPHOLD 39 OC O 000000 000000 SWAPHOLD 39 OC O 000000 000000 O00000 SWAPHOLD 39 OC O 000000 000000 O00000 SWAPHOLD 39 OC O 000000 000000 O00000	124 <u>-</u>					B
34 35 09 0 000000 000001 DLAYCNTL 36 0A 0 000000 000000 SEARCHINFO 37 0B 0 000000 000000 SEARCHINFO 38 0C 0 000000 000000 SUBSPACEID = 8 39 0D 0 000000 000000 SWAPHOLD 40 0E 0 400C18 CDED05 TIMESTARTED @ 34:38:13= 15.9476904 SECONDS PRIOR TO DUMP 41 0F-10 0 000000 000000 RUNNINGCOUNT ACCESSCODE 42 11 5 800000 2B5990 CHARGECODE = 6701 42 11-16 0 000000 000000 DBEQTNBLK DBSINFO DESTNAME HOSTNAME FAMILYSUB 43 12-16 0 000000 000000 JSTITLE MYBDNAME MYFPB 44 17-19 0 000000 000000 JSTITLE MYBDNAME MYFPB 45 1A 5 800000 80E9F3 MYNAME = (LFPROG)0BJECT/JSD/MEMDUMP/EXAMPLE 46 1B-1D 0 000000 000000 MYPME SUBSYSTEMID YOURNAME 47 1E 5 800000 1C57AF BACKUPFAMILY 48 0(0000) 0 04C4C9 E2D200 48 1F 0 000880 000000 BDINFO 50 20 5 800000 6100ED EVENTCAR 51 000000 000000 THRU 5(0005)	31			TACK 088		
34 35 09 0 000000 000001 DLAYCNTL 36 0A 0 000000 000000 SEARCHINFO 37 0B 0 000000 000000 SEARCHINFO 38 0C 0 000000 000000 SUBSPACEID = 8 39 0D 0 000000 000000 SWAPHOLD 40 0E 0 400C18 CDED05 TIMESTARTED @ 34:38:13= 15.9476904 SECONDS PRIOR TO DUMP 41 0F-10 0 000000 000000 RUNNINGCOUNT ACCESSCODE 42 11 5 800000 2B5990 CHARGECODE = 6701 42 11-16 0 000000 000000 DBEQTNBLK DBSINFO DESTNAME HOSTNAME FAMILYSUB 43 12-16 0 000000 000000 JSTITLE MYBDNAME MYFPB 44 17-19 0 000000 000000 JSTITLE MYBDNAME MYFPB 45 1A 5 800000 80E9F3 MYNAME = (LFPROG)0BJECT/JSD/MEMDUMP/EXAMPLE 46 1B-1D 0 000000 000000 MYPME SUBSYSTEMID YOURNAME 47 1E 5 800000 1C57AF BACKUPFAMILY 48 0(0000) 0 04C4C9 E2D200 48 1F 0 000880 000000 BDINFO 50 20 5 800000 6100ED EVENTCAR 51 000000 000000 THRU 5(0005)	5			OB IECT / IS	ICD (MEMBLIND (EVANDLE ON DICK.)	32
35 09 0 000000 000000 DLAYCNTL 36 0A 0 000000 000001 ORIGBOXES 37 0B 0 000000 000000 SUBSPACEID = 8 38 0C 0 000000 000000 SUBSPACEID = 8 39 0D 0 000000 000000 SWAPHOLD 40 0E 0 400C18 CDED05 TIMESTARTED @ 34:38:13= 15.9476904 SECONDS PRIOR TO DUMP 41 0F-10 0 000000 000000 RUNNINGCOUNT ACCESSCODE 41 42 11 5 800000 285990 CHARGECODE = 6701 42 43 12-16 0 000000 000000 DEGINBLK DBSINFO DESTNAME HOSTNAME FAMILYSUB 43 44 17-19 0 000000 000000 JSTITLE MYBDNAME MYFPB 44 45 1A 5 800000 80E9F3 MYNAME = (LFPROG)0BJECT/JSD/MEMDUMP/EXAMPLE 45 46 1B-1D 0 000000 000000 MYPPB SUBSYSTEMID YOURNAME 45 47 1E 5 800000 1C57AF BACKUPFAMILY 0(0000) 0 04C4C9 E2D2O0 48 49 1F 0 000880 000000 BDINFO 49 50 20 5 800000 6100ED EVENTCAR 0(0000) THRU 5(0005)	_11—		USA ((LFPRUG)	OBOECT/ US	SD/MEMDUMP/EXAMPLE UN DISK.)	s
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44 17-19 0 000000 000000						
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47 1E 5 800000 1C57AF BACKUPFAMILY 48 0(0000) 0 04C4C9 E2D200 49 1F 0 000880 000000 BDINF0 49 50 20 5 800000 6100ED EVENTCAR 51 0(0000) 0 000000 000000 THRU 5(0005)						
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51 0(0000) 0 000000 000000 THRU 5(0005) 51					au	50
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53 22		21	0.000000.000			
54 23-24 0 000000 000000 CARDSPUNCHED ALARMTIMES 55 25 0 3AFB63 EFCFD8 TIMESTAMP @ BOT = 04/09/85 17:53:04 56 26 0 000000 000400 CPINF0 57 27 0 000000 000000 DISKUSED	누이	22	0.058000.000	YAAA BI		53
55 25	53	22-24	0 0000000 000	1000 GE		23
56 26		25 24	O 34EB83 EEV	FDQ T		
57 27 0 000000 000000 DISKUSED 57	55	20 26	0 000000 000	NOO 011		5
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59 29	53	23				60
60 2A 2 000000 031907 (EXCEPTIONEVENT2) 60		4A	2 000000 031	301 (E	EAGER LONG VENT 2 /	

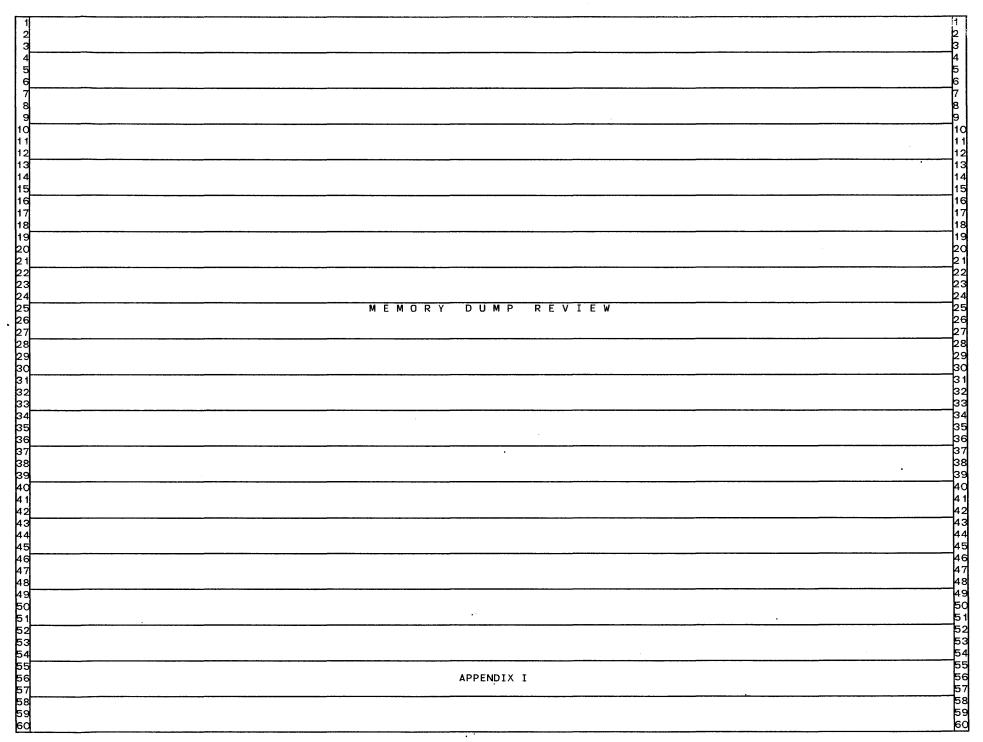
-	0D 0		000000		FVTFBULL FINE VICE FROM TO
				000000	EXTERNALFAMILYLINKFREEPBITS
4	2D		000000		HEADERACCESS TNETRY INFO
3			000000		INSTRYINFO INTERCEPTEDROW LL-4 NORM [USER @ 0002.0005.4]
4	2F		020200		INTERCEPTEDRCW LL=4, NORML [USER @ 0003:000F:1]
5					INTERCESSION ITINERARY JOBDECKINFO
6 7			088020 800000		JOBINFO JOBMSGS
	34	ິນ	300000	~30EOD	0(0000) 0 000000 000000 5 800000 63C2F8
					0(0000) 0 000000 5 800000 63C2F8 0(0000) 0 002401 002100 0 00E2C5 C74OC1 0 D9D9C1 E84OC5 0 D9D9D6 D94O7C 0 404DF0 F0F0F0
12					5(0005) 0 F1F3F0 F05D5C
1,4					2(0002) 0 000000 000000 THRU 3(0003)
10	35-3	36.0	000000	000000	LIBRARYDIR LINESPRINTED
12	37		800001		OLAYFILEDESC
14		_	20001		
15					5(0005) 0 000005 000320 0 000000 000000 0 000000 0 000000 0000
16					10(000A) 0 000000 000000 THRU 12(000C)
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18					18(0012) 0 000000 000000 THRU 19(0013)
19					20(0014) 0 010040 435F79 0 000000 000000 0 000000 0 000000 0 0000
20	38	0	000000	000000	PORTLIB PIB
21	39	0	40005B	117000	PROCESSFAMILYLINK PARENT=05B SIBLING=117
22				000000	0(0000) 0 000000 000000 THRU 4(0004) 5(0005) 0 000005 000320 0 000000 000000 0 000000 0 000000 0 0000
23	3F-4			000000	ROLLOUTINFO SOFTINTO SWAPDATA
24	42		000000		TASKBOXES
25	43			000000	TASKINFO
26				000000	TASKPARAMS
27		5	800001		PIBIOCB
28					ITRL: O 10CBOO 000C48 WRITE, WORD, FORWARD, PROTECT, CAUSE IO FINISH
29					ESS: O 000000 400002 MLIPNO = 4, MLIP PORT = 0, LEM PORT = 0, REL DLP = 2
30					EUE: 5 C00000 81D5B9
28 29 31 33 33 35 36 37 39 40					PTR: 5 CO0001 E4EA87 PTR: 5 E00001 94EA87 PTR: 5 E00001 B4EA87 PTR: 5 E00001 F0EGE PTR: 5 E00001 F
32					PTR: 5 E00001 94EA87
33					PTR: 5 E00001 B4EA87
۲4 ا				•	THS: 0 000000 0A000C
20					IASK: 0 000000 000000
27					IEUE: 5 E00000 10BFDA INK: 0 000000 000000
20					PTR: 5 E00001 F0E6CE
30					IGTH: 0 000000 000000
40					SLT: 0 000000 000000
41					IME: 0 00063F 621FC3 17:53:19 (00:00:00.04071 PRIOR TO DUMP)
42					IME: 0 000000 003AC8 17:53:19 (00:00:00.00460 PRIOR TO DUMP)
41 42 43	 		-	INFO1 W	ORD: 0 008088 140001 UNITNUMBER = 220, OWNER STKNO = 008, INITIATING STKNO = 088, REQUESTOR = 10 (MCPIO)
44					ORD: O OOOOFO 044100 STATE = 1 (INACTIVE), PATHNAME = OF, PROC NO = 4. MLIP NO = 4
45					ESC: 0 000000 000000
44 45 46 47					DCW: O O30000 OFFAF9 IOSTANDARDFIELD: WRITE, 8-BIT, MEMORY PROTECT
47					PESC: 5 COOOO5 BOEGCE
48				EVENT	REF: 1 48800C 80000B
49				FIB D	PESC: 0 000000 000000
50					MSK: 0 000000 000000
51					. RD: 0 0001F0 000000 UNITS XFERRED = 0001F (31)
52					NFO: O 800001 F00000 WORD, BUFFERINDEX = 00000 (0), IOLENGTH = 0001F (31)
53					ND1: O 400000 OFFAF9
50 51 52 53 54 55 56 57 58					ND2: 0 000000 000000
55					ILT1: 0 000000 000000
56					JLT2: 0 000000 000000
57				SAVED I	NFO: O 030000 0000DC
58					ASK: 0 000000 000000 RD: 0 0001F0 000000 UNITS XFERRED = 0001F (31) NFD: 0 800001 F00000 WDRD, BUFFERINDEX = 00000 (0), IDLENGTH = 0001F (31) ND1: 0 400000 0FFAF9 ND2: 0 000000 000000 ILT1: 0 000000 000000 ILT2: 0 000000 000000 NFD: 0 030000 00000C TASKTYPE HSINFO SURROGATEINFO WAITSTART DEIMPRUNTIMESET ACTIONQ
59				000000	TASKTYPE HSINFO SURROGATEINFO WAITSTART DEIMPRUNTIMESET
60	4B	Ω	000000	000000	ACTIONQ

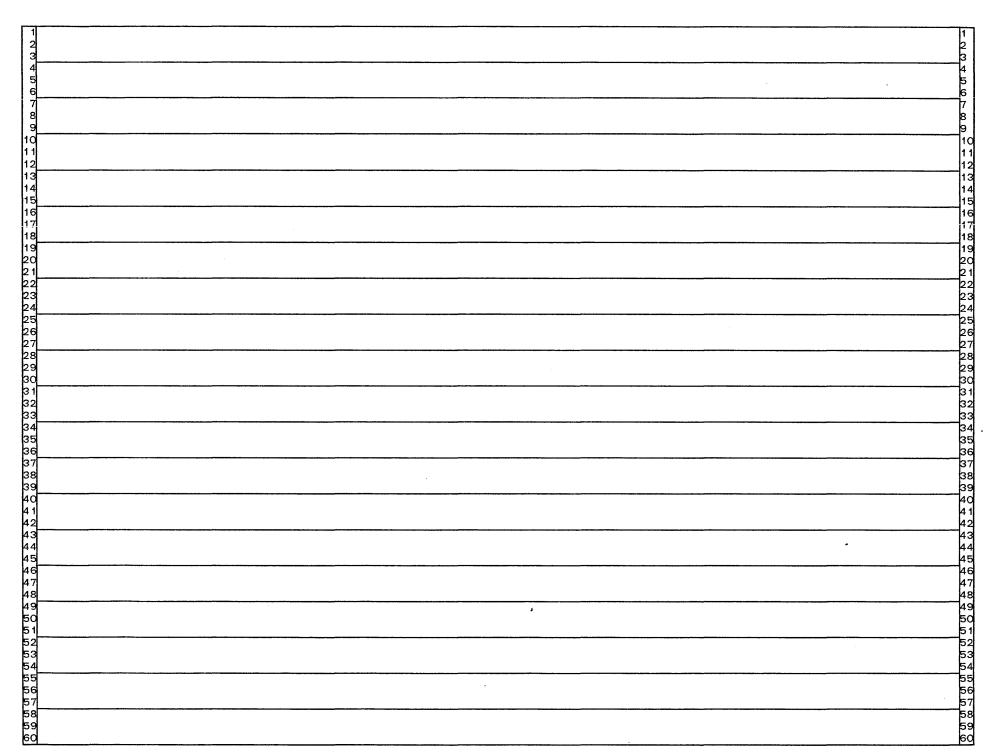
					
1 4C		00000 006DF4	RECENTPROC	= 0.0675552 SECONDS	1
2 4D	7 38	34050 788BCA	PALACE	PCW: LL=2, D[0] SEGMENT @ OBCA:0507:0, CNTRL STATE, STACK=384 (12780000)	2
3 4E	1 78	34917 A0004D	PALACEREF	SIRW: OFFSET=91C7 (917A+004D) STACK = 384	3
4 4F	0 00	00044 000000	USAGE		74
5 50	0 00	00000 00000	DMSBED		5
6 51		OC19 334B9A	READYON	@ 34:38:29= 0.0036528 SECONDS PRIOR TO DUMP	6
7 52		00000 000004	PROCESSOR	9 34.30.23 0.0000328 JECONDS (NION TO BOM)	7
				A ALICA COLLAR DESCRIPTION TO DIMP	ľ,
8 53		00019 334095	CLOCKONTIME	@ 34:38:29= 0.0030504 SECONDS PRIOR TO DUMP	Ľ
9 54		00000 000000	LETGEORGEDOIT		_ყ.
10 55		00000 OOFF8E	READYTIME	= 0.1570128 SECONDS	10
11 56	0 00	00000 006DF4	PROCESSTIME	= 0.0675552 SECONDS	11
12 57	0 00	00000 017FFE	IOTIME	= 0.2359248 SECONDS	12
13 58		00000 000014	INITPBITKOUNT	= 20	13
14 59		00000 004469	INITPBITTYME	= 0.0420312 SECONDS	14
		00000 000000	OTHERPBITCOUNT	OTHERPBITTIME .	15
		00000 000000 00000 0E0404			16
16 5C			HISTORY	REASON=14, CAUSE=4, TYPE=4	110
1 1		00000 000000	IOCOUNT 1	IOCOUNT2 MYSTACKHISTORY	17
18 60		0400 50E003	STOPPOINT	LL=3, NORML [USER @ 0003:0005:2]	18
19 61-6	62 0 00	00000 000000	LOCKEDEVENT	(LOCKEDEVENT2)	19
20 63	0 00	00008 681004	VALIDITYBITS		20
21 64		00000 00000	AVALUE		20 _21
22 65		7FFF FFFFF	MAXPROCESSTIME	= 549755813887	722
23 66		00008 000300	=>SWAPSPEX	ACTMTYPE=O, ORIGMTYPE=3	22 23 24
24 67		00000 00001D	CODECORE	ACTAIN E O, GRIGHTIVE O	5/
		00000 000018			-h:
25 68			DATACORE	ELADOEDI VIIVA	25 26 27
		00000 000000	DISKLIMIT	ELAPSEDLIMIT	26
27 6B		7FFF FFFFF	MAXIOTIME	= 549755813887	_27
28 6C-6	6D 0 00	00000 00000	MAXWAIT	WAITLIMIT	28 29
29 6E	0 00	00000 00001F	ERROR	= 31	29
BO 6F	5 EC	00005 B093F0	EXCEPTIONTASK		30
31 70		00000 000070	=>OPTION		7 31
32 71		00000 00000	PARTNER		32
33 72		00000 4180BC	PATHCONTROL	(ORG MCS=1 LSN=188)	33
34 73		00000 000000	PRINTLIMIT	(UNG MEST LIST 100)	- 34
				- 50	2.
35 74		00000 000032	PRIORITY	= 50	35 _36
36 75		10000 000000	PUNCHLIMIT	= 0	<u>ــار</u>
37 76		00000 00000	RESTARTCOUNT		37
38 77		3800A OFOA8D	=>SERIAL		_38 39
39 78	0 00	00000 001194	STACKLIMIT	= 4500	738
40 79	0.80	00001 200200	=>STACKSIZE	=18+512=530	740
41 7A	0 00	00000 0000BC	=>STATIONINFO		41
		00000 00000	TARGETTIME	TAPECOUNT TAPEPOOL	42
43 7E		B000 000000	TASKLIMIT	= 1.77088743108E+21	43
44 7F		10101 06D3C6	=>USERCODE	= LFPROG	44
45 80		7D9D6 C70000	(USERCODE2)	211100	4.
1					一,,,
46 81		00000 000000	(USERCODE3)	PRIMEROFF MACHINETAL M	46
47 82	0 00	00000 000093	USERCODEPRIV	PRIVLEDGED USER, MCS ABSTAINING, HS SPECIAL PRIVS ALLOWED FOR THIS STACK, THIS STACK DID	[:
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17 02182(00062) 7 008000 050598 7 0.08000 0046F3 5 080000 104007 5 880000 0746F8 7 0.08000 0046F8 7 0.08								- Leel	,							
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9 02106 (000006) 7 000000 08408A 7 000000 08408A 7 000000 08528B 8 0 02116 (00016) 7 000000 08408 6 0 000000 7 000000 7 000000 000000 7 000000	3					5 800039	009875	<u> </u>	800763							_β
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8 02124(00024) 7 008024 958567 5 090000 040617 700677 0708047 1050677 080804 08518 7 080800 05518 7 008000 040612 7 008000 040612 7 080800 040812 8 1 080800 0408118 7 008000 040812 7 008000 040812 8 1 080800 040812 7 08080	9									The second secon						-£1
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12 02197 (0009F) 7 008000 004C81 7 008000 004E81 7 008000	111					-										111
1	12	0213F(0003F)	7 008066 884BB					7 008A0D	484BBC			7 008004	684BC2	7 008000	0051AA	12
15 02154 (00054) 7 008000 004618 7 008000 0	13	02146(00046)	7 008000 004C3	1 7 00	08000 084CD1	O 0005D9	DOEF86	7 00800B	B84BBD	7 008000	00512A	7 008000	084C3D	7 008816	104CF9	713
18 02198 000000	14	0214D(0004D)	7 008000 0051A	7 7 00	08000 005042	0 000000	014000			7 008005	684BBD	7 008009	C84BCE	7 008801	B84C90	14
17 02162(00062) 7 008000 008628 7 008000 004678 5 080000 1040007 5 880000 018900 7 008000 004685 7 008000 004885 7 008000 004885 7 008000 004885 7 008000 004885 7 008000 004885 7 008000 004885 7 008000 004885 7 008000 004885 7 008000 004885 7 008000 004885 7 008000 008000 7 008000 008000 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 008000 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 008000 7 008000 00800 7 008000 00800 7 008000 00800 7 008000 008000 7 008000 008000 7 008000 00800	15															115
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22 22 1815 (00085) 7 008000 0050584 7 008000 004F88 7 008000 004F88 7 008000 004F88 7 008000 000000 5 000000 000000 5 000000 000000	24	1 1														54
22 02194(00031) 7 008000 004528 7 008000 004528 7 008001 984860 7 008000 004528 7 008013 984860 7 008020 004528 7 008001 00452	53															53
20 221931(00093) 7 008000 004E38 7 008000 004E38 7 008000 004E38 7 008000 004E38 7 008000 005E37 7 008000 005E37 7 008000 004E38 7 008000 008000 7	23	1														23
22 02194(00094) 7 008046 248EA 7 00800 00517 7 008040 948EA 7 008021 784EEE 7 008020 00406 2 000000 000000 000000 0 000000 0000000	54															54
22 02181(000Al) 0 000000 000000 0 000000 0 000000 0 0000	25															25
27 02188 (000AB) 7 00801 1 005000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 7 0 00000 0 00000 0 0 00000 0 0 0 0 0 0 0	26	1														
28 0218F(000R) 7 008000 A84BCD 5 080001 040008 5 080004 04000F 5 080004 040012 5 080004 040015 7 008000 051147 2 2 2 218F(000R) 7 040800 0615147 7 008000 0511	27	1 : : :	7 008A11 0050E				884C1B	7 008000	0051F7	7 008061	00512D	7 00880E	10512D	7 008001	805135	27
32 23 18 18 18 18 18 18 18 1	28	021AF(000AF)	7 008000 A84B0	D 5 08	80001 04000B			5 080004	04000F	5 080004	040012	5 080004	040015	7 008000	005174	728
31 22 164 (29	021B6(000B6)	7 408000 00523	F 0 00	00000 00000	7 008000	004E5F	7 008000	084C9C	7 008000	0051E4	7 008655	D05214	7 008802	F0521A	29
32 O21CB(OOOCB) 5 800037 pb93F0 7 008000 004667 33	Вq	021BD(000BD)	5 880000 4A743													_ 3d
33 SAPTS (00000) 3 00000 000000 0 00000 000000 0 00000 000000	31					0 000000	000000	6 000000	000000	0 000000	000000	7 008000	004066	7 008000	00508D	31
35 INPUT: MD 3875 FOR AO 36 O89875(000007) 3 000000 000000 0 000000 0 000000 0 00000	32	021CB(000CB)	5 800037 DD93F	Q 700	08000 004067	a =0									**	32
35 INPUT: MD 3875 FOR AO 36 O89875(000007) 3 000000 000000 0 000000 0 000000 0 00000	33	<u> </u>	Talk MC7VII	Tores	vector Do	(7)										133
36 09875(00007) 3 000000 000000 0 000000 0 000000 0 00000	34	TAIDUT. NO 003	F FOR AC	- (1-												24
37 0987C(00007) 0 000000 000000 5 800145 0020EB 5 80001C 4\[CF3E 5 800014 \] 20\[CF5F 5 80004B \] 20\[CF5F 5 80004B \] 20\[CF5F 5 800016 \] 00\[CO000 \]	30			0 0	00000 000000	0.000000	000000	0 000000	000000	0.000000	000000	0.000000	000000	0.000000	000000	22
38 09883(0000E) 0 000000 000000 THRU 09894(0001F) 38 00985(00020) 5 800016 00A704 0 000000 000000 0 000000 0 000000 0 0000	37															_
39 09895(00022) 5 800016 00A704 0 000000 000000 0 000000 0 000000 5 800016 00CC1C 0 000000 000000 5 800016 40D188 0 000000 000000 3 0 000000 000000 0 000000	38						40,0102	3 000014	205111	0 000042	200104	0 000000	000000	0 000000	000000	38
40 0988C(00027) 0 00000 000000 0 000000 0 000000 0 0000	39	1 1					000000	5 800016	00CC1C	0 000000	000000	5 80001C	40D188	0 000000	000000	39
42	40													0 000000	000000	40
43	41	098A3(0002E)	0 000000 00000	0 0 00	00000 000000	0 000000	000000	0 000000	000000	0 000000	000000	0 000000	000000	5 80001C	90C972	41
44 098BF(0004A) 5 800022 510A4E 5 80003C C10C77 0 000000 000000 0 000000 0 000000 0 0000	42	O98AA(00035)	0 000000 00000	0 0 00	00000 00000	5 80000D	010715	0 000000	000000	5 800005	10EB31	0 000000	000000	0 000000	000000	_42
45 098C6(00051) 5 800075 91AFF7 0 000000 000000 0 000000 0 000000 0 0000	43	1 : :														43
46	44	1 1 1														1 1
47 098D4(0005F) 0 000000 000000 0 000000 0 000000 0 0000	45															
48	46	1 1 1														1
49 098E2(0006D) 0 000000 000000 5 800058 811066 5 80001C 923D00 5 80003D 619CBB 0 000000 000000 5 800021 61E735 5 800006 B26351 49 5 0 098E9(00074) 5 800032 A44F95 0 000000 000000 5 80003D 0266F9 5 800046 2281A9 5 800016 A26ADC 5 800020 D26E15 5 800004 D27026 50 098F0(0007B) 5 80000F A26447 0 000000 000000 5 800009 E27281 5 800004 B26633 0 000000 000000 5 800058 82C905 0 000000 000000 5 098F0(00082) 0 000000 000000 0 000000 0 000000 0 0000	47	1 1 1 1														
50 098E9(00074) 5 800032 A44F95 0 000000 000000 5 800003 0266F9 5 800046 2281A9 5 800016 A26ADC 5 800020 D26E15 5 800004 D27026 50 098F0(0007B) 5 80000F A26447 0 000000 000000 5 800009 E27281 5 800004 B26633 0 000000 000000 5 800058 82C905 0 000000 000000 5 098F1(00082) 0 000000 000000 0 000000 000000 0 00000	48					5 800058	82 1039	2 800030	610CRP							
51 098F0(0007B) 5 80000F A26447 0 000000 000000 5 800009 E27281 5 800004 B26633 0 000000 000000 5 800058 82C905 0 000000 000000 5 2 098F7(00082) 0 000000 000000 0 000000 0 000000 0 0000	E0															
52 098F7(00082) 0 000000 000000 0 000000 0000000 0 0000	51		5 8000032 A44F8	17 0 00	00000 000000	5 800000	F27281	5 8000046	B26633	0 000000	0.000000	5 800058	820905	0 000004	000000	51
54 09905(00090) 5 800005 9300DF 5 800006 230745 5 800003 E30AF9 0 000000 000000 0 000000 0 000000 00000	52		0 000000 00000	0 0.00	00000 000000	2 000000	000000	0 000000	000000	0 000000	000000	0 000000				
54 09905(00090) 5 800005 9300DF 5 800006 230745 5 800003 E30AF9 0 000000 000000 0 000000 0 000000 00000	53	1 : :	5 80004B 23E39	6 \ 5 80	00001 35DAB3	Z 0 000000	000000	0 000000	000000	0 000000	000000	0 000000				
55 0990C(00097) 0 000000 000000 THRU 09914(0009F) 56 56 57 57 57 58 INPUT: MD 338D6 FOR 100 MS(0) 59 338D6(00000) 0 000004 3 488000 000000 0 00FFFF F020D2 0 000000 000000 6 800000 000000 5 800000 635884 7 088000 000000 5	54	1 1 1	5 800005 93000	F 5 80	00006 230745	5 800003	E30AF9	0 000000	000000	0 000000	000000	0 000000				
56 57 58 INPUT: MD 338D6 FOR 100 MS(**) 58 338D6(00000) 0000004 3 488000 000000 0 00FFFF F020D2 0 000000 000000 6 800000 000000 5 800000 635884 7 088000 000000 5							•									55
58 INPUT: MD 338D6 FOR 100 MG(00 55 59 338D6(00000) 0 000000 0 00FFFF F020D2 0 000000 000000 6 800000 000000 5 800000 635884 7 088000 000000 5 9 338D6(00000) 0 000000 000000 4 3 488000 000000 0 00FFFF F020D2 0 000000 000000 6 800000 000000 5 800000 635884 7 088000 000000 5 9 338D6(00000) 0 000000 000000 6 800000 000000 5 800000 000000 6 800000 000000 6 800000 000000 6 800000 6 800000 000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 8000000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 80000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 800000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 800000 6 800000 6 800000 6 800000 6 800000 6 8000000 6 8000000 6 8000000 6 8000000 6 80000000 6 800000000	55	1	· •		•											56
<mark>59 </mark> 338D6(00000) <u>0 '000</u> 000 000004 3 488000 000000 0 00FFFF F020D2 0 000000 000000 6 800000 000000 5 800000 635884 7 088000 000000	55 56	1														
	55 56 57)												_64
GO 338DD(00007) 0 000000 000000 0 000000 000000 0 000000		INPUT: MD 338	D6 FOR 100													58
	57 58	INPUT: MD 338 338D6(00000)	D6 FOR 100 0 000000 00000	04 3 48	000000											58 59

ernal post 338E4(0000F) 0 000000 000000 0 000000 000000 0 000000 000000 5 270000 841742 3 F84917 A08011 3 000000 002000 338EB(00015) 3 000249 D88C9A 0 000000 000000 0 000000 000000 0 000000 000000 0 000000 000000 5 84000B 4C267B 5 C00001 EC267B 338F2(0001C) 7 088600 20E003 7 088800 50E003 0 000000 000000 5 E10002 94917A 7 888800 70E003 7 088801 00E003 7 088801 00E003 338F9(00023) 3 C08000 804010 5 COOO22 8338D6 6 800000 004800 3 000201 A0A003 0 000000 00000F 1 488001 40000E 0 000000 000000 33900(0002A) 0 000000 000000 5 COFFFF F338EA 0 000000 000000 0 800000 204800 0 000000 000014 0 000000 000000 0 000000 000000 33907(00031) 0 000000 000000 0 000000 000000 0 000000 000000 7 088000 000000 6 A00A06 A84CD8 3 488001 400012 3 000806 684CD8 4 024FFF E20000 3 488001 40C004 3 000001 00E003 0 000000 000000 3390E(00038) 7 088800 C12003 3 C08000 804003 3 000400 60E003 33915(0003F) O 000009 000004 O 9F40AO 083020 7 088224 308C72 3 C08000 804008 3391C(00046) 3 000624 784C72 0 000000 000001 O 000000 00003D 0 000000 000000 1 488003 600003 4 000000 320000 7 088803 784CDD 33923(0004D) 3 020803 784CDD O 024FFF E20000 0 000000 000038 0 000000 000036 3 488003 61000B O 000000 00003D 0 000000 000001 3392A(00054) 3 C08000 804004 3 020200 F12003 0 000000 000003 5 COOOO8 34917A 6 000000 000000 0 005500 000004 7 088000 088CCE 33931(0005B) 3 C08000 804004 3 488005 408007 3 000828 984BCE 0 000000 000002 0 000000 000000 3 000213 C88CCE 6 000000 000000 33938(00062) 6 000000 000000 6 000000 000000 5 C00008 34917A 0 000000 000000 1 488001 40000C 6 A0040C F84C88 3 488001 40C009 3 488001 40C002 3 000400 80E003 0 000009 0004007 0 AB23E0 0D3038 3393F(00069) 3 00020C E84C88 5 E40000 5C267B 5 ECOOOO 5AB239 O 000000 00001B 3 C08000 804005 33946(00070) 3 000400 50E003 0 000000 000003 O 000000 00000E 0 000000 000004 7 088224 308C72 3394D(00077) 3 C08000 804008 3 000A25 B84C72 0 000000 000014 0 FFFFF FFFFF 0 000000 000000 O 000000 00033A 0 000000 00007F 33954(0007E) 0 000000 000000 5 COOO34 7338D6 .3 CO8OOO 804OO9 .3 OOO8O7 184CB9 O CD5A64 665473 1 570A55 C95CFO O 000000 014C6B 0 000000 001FCA 3395B(00085) O 00063F 626206 0 0800DC 000002 **1**0 000000 000000 0 000000 000260 O 000000 00027E O 000000 00095D 33962(0008C) 0 000000 000004 O 000000 000000/ O 400000 4E90AD O 000000 00DF53 0 000000 000000 0 000000 000000 0 000000 000000 7 088205 989288 33969(00093) 0 000000 000000 5 COOOOA 41D6E1 7 088400 289288 7 088400 C89288 7 088A04 789288 3 000102 80E070 33970(0009A) 3 000006 40DF53 5 COOO5D EOO95D 3 C888FB FO401C 3 020A34 885288 5 COOO1D 20A917 5 COOOOO 833956 5 COOO5D EOO95D 33977(000A1) O 000000 00027E O 000000 0007CD O 000000 000000 0 000000 000000 0 000000 000000 0 000000 000000 O 000000 00000A 3397E(000A8) 0 000000 000000 3 000807 184CB9 0 000000 000088 0 000000 002100 0 000000 000088 O OOOOOO O338D6 0 000000 033972 33985(000AF) 3 C08000 80401C O 000000 033AFE 0 000000 000034 5 E03397 300000 O 000000 00002D 0 000000 000004 0 000000 000000 3398C(000B6) 0 000000 000010 0 000000 000004 0 000000 000000 0 000000 000000 3 C08000 80400B 3 000001 C85287 5 COOO15 30A996 33993(OOOBD) 0 000000 000000 0 000000 000000 5 COOOOO 80A9A5 6 000000 000000 0 000000 000000 0 000000 000000 0 000000 000003 3399A(000C4) 0 000000 000008 6 000000 000000 0 000000 000000 1 000000 002004 0 000000 000003 O FE0000 000000 0 000000 00002D 339A1(000CB) 0 000000 00000A 0 000000 000000 O 030000 OFFAF9 5 COOOO5 BOE6CE 0 000000 000000 0 000000 00001F 0 000000 000001 339A8(000D2) 0 000000 000000 2 000000 000001 2 000000 000000 3 C08000 80400D 3 200238 D04BD1 1 48800C 80000B 0 000000 000000 339AF (000D9) 0 000000 000000 0 000000 000000 3 F84917 A08006 3 200820 484BCA 0 000000 000000 0 000019 334003 0 000000 000000 5 E00000 30A64A 0 000000 000004 O 00063F 643E18 339B6(000E0) O 000000 0000FB 0 000000 000000 O 000000 0000FB 0 000000 000057 339BD(000E7) 0 000000 000001 5 COOOO8 30FA93 0 000000 000000 5 E00000 408C1D 0 000000 000057 0 000000 000057 0 000000 000008 0 000000 000000 339C4(OOOEE) 0 000000 000020 5 E00000 808CDB 0 000000 000000 0 000000 000000 0 400000 000000 5 E00001 D4EA87 339CB(000F5) O 000000 OA6FDF O 000000 OCO454 5 EOAE2D 400000 5 COFFFF F00000 D(Q) INPUT: MD 20F8 FOR A6 020F8(00000) 3 000145 001448 3 408000 000000 / 0 00FFFF F020D2 0 000000 000000 6 800000 000000 5 800001 A4353D 0 000000 000000 020FF (00007) 0 000000 000000 3 408000 000007 5 880144 8B2226. 5 800039 009875 1 408000 800763 5 80FFFF F00000 6 000000 000000 0 000000 000000 7 008000 084C36 7 008000 005204 5 080144 84FA40 7 008000 084CD8 02106(0000E) 7 008602 484CD2 0 000000 000000 7 008020 984BCA 7 008000 084C8A 7 008000 004C33 7 008000 084CDO 6 000000 000000 7 008000 384BCD 02114(0001C) 7 008000 085288 7 008001 5051A8 7 008007 804CF6 7 0086A7 9050D3 7 008000 084D02 0 000000 000000 7 008000 004E68 7 008000 005045 7 408024 484BD6 0 000000 000060 7 00800A 404EC8 7 008000 005043 7 008000 004CDC 0211B(00023) 5 080001 040002 02122(0002A) 5 080004 040003 5 890004 5D8567 5 090004 04006E 5 090000 840073 5 880004 OB570D 5 880000 CC0869 7 00841C 60513B 7 0086B4 305050 7 0082AE 90504A 7 008A07 7050F7 7 OO8ACF 1050EO 7 OO824D 085118 7 008000 0050D9 7 008000 004C3E 02130(00038) 7 008000 084E25 7 008000 005200 7 008009 205209 7 00803F A84BBC 7 008000 005202 7 008000 084BE3 7 008AOA AO4CFO 02137(0003F) O 000000 000000 7 00800B 484BC2 7 008000 084CDD 7 008000 084CB9 7 008000 004E26 7 008000 004E27 7 008000 084BC0 7 008076 E84BBF 7 008066 884BBF 7 008000 004E51 7 408A00 184C15 7 008A0D 484BBC 7 008003 E84BE3 7 008000 0051AA 7 008000 004C31 7 008000 084CD1 0 0005D9 D0EF86 7 00800B B84BBD 7 008000 00512A 7 008000 084C3D 02145(0004D) 02140(00054) 7 008816 104CF9 7 008000 0051A7 7 008000 005042 0 000000 014000 7 008027 684BCE 7 008005 684BBD 7 008009 C84BCE 7 008000 005088 7 008404 E051FA 7 008000 C8508F 02153(0005B) 7 008801 B84C90 7 008000 004091 7 008000 C85092 7 008000 0051F0 0215A(00062) 7 008000 084C3B 7 008000 004E81 5 80000C 841510 7 008000 004C97 7 008000 084C3C 7 008800 B04E63 7 008000 004E65 7 008000 005059 7 008000 004CF3 5 080001 040007 5 880004 OFB90C 02161(00069) 7 008000 005058 7 008A02 604CB1 7 008005 904CB3 008000 084C8E 7 008000 004EE3 7 008000 004EE2 7 008000 004EE5 7 008801 204EE8 7 008000 084BCD 7 008000 004CC4 0216F(00077) 7 008000 004C8F 7 008200 105044 7 408000 004F0A 7 008000 084C8B 7 008000 004EE6 7 408002 B04F04 7 008804 004EE0 7 00860B F04EE1 7 008000 004E39 7 008A07 1051F3 7 008004 F84BCE 3 000003 580BCE 02176(0007E) 7 008403 505209 7 008000 004EE7 7 008803 E04E74 7 008000 084C39 7 008000 004C3F 7 008418 F04EC6 7 008000 0050DC O 000000 00037D 7 008000 004CD5 0217D(00085) 7 008000 004E60 7 008000 005054 7 008000 004F8E 7 008000 004F88 7 008000 004F84 7 008009 084039 7 008000 004F55 02184(00080) 0218B(00093) 7 008600 D04CD3 7 008060 F84BBF 7 008055 284BBF 7 00801E F84BCB 6 800000 000000 6 800000 000000 5 C00000 000000

1 02192(0009A) 5 000000 000000 7 008000 004E38 7 008000 004E2B 7 00841F 985053 7 008033 A84BCA 0	000000 000000 7	00801C 984BC
2 02199(000A1) 7 008045 484BCA 7 008046 284BCA 7 008000 005127 7 00804A 984BCA 7 008021 784BCB		
134		
5 INPUT: MD 5DAB3 FOR 13 Stade 8 A - our segarationary		
5 INPUT: MD 5DAB3 FOR 13 5 TALL 815 - 301 - 3	Ser 1	200
6 5DAB3(00000) 3 000001 28400E 3 48A000 000000 0 00FFFF F020D2 0 000000 000000 3 C08000 804003 5	880000 DA3335 7	08A401 A0A00
7 5DABA (00007) 3 800002 B9F403) 5 880000 5AB239 1 408000 80009D 1 408000 800098 1 408000 800066 1	408000 800068 1	408000 80009
8 5DAC1(0000E) 1 408000 8000E 1 408000 80009E 1 408000 80000A 5 070000 00008C 5 070000 000093		
9		
10 John John Jer 4 R 200 Mar Jer at	TO TWO	
10 11 INPUT: MD 9F403 FOR 2B	diff to The	
12 9F403(00000) 3 FF5006 BDB21E 3 9C2A17 5007BA 3 AZAO12 BOSO07 3 AGB204 9C2A03 3 BOGO04 AG962A 3		3 100483 5002B
		3 06AE60 07AE6
		6008AB B215A
		BEFFFF FFFFF
		3 000800 70E00
1 1		B20695 B4A22
18 9F42D(0002A) 3 00FFFF FFFFFF	800000 204800 3	0 020033 04A22
19		
20 21 INPUT: MD 93FO FOR 37D PIB vector Cdex CB		
2 1NFO1. MD 9310 FOR 37D	000000 000000	
		000000 00000
	000000 000000 0	000000 00000
		000000 000000
		000000 00000
		800001 00D16
	000000 000000 0	000000 00000
29 0942C(0003C) 0 000000 000000 THRU 09439(00049)		
		000000 000000
		800008 30FA9
		800001 01085
		000000 000000
		000000 000000
	COOOO8 310349 5	C00008 3244B
36 09464(00074) 5 C00008 3147CF 0 000000 000000 5 C00008 3242D3 5 C00008 31EC3F 5 C00008 324427 5	800001 0243E8 5	800008 32630
37 0946B(0007B) 5 800001 026D8F 0 000000 000000 5 800008 3271FA 5 800001 02661F 0 000000 000000 5	COOOO8 327C7F _O	00000 00000
38 09472(00082) 0 000000 000000 0 000000 000000 0 00000	000000 000000 (5	C00008 34917.
39 09479(00089) 5 000008 3417DD 5 800001 0183D7 0 000000 000000 0 000000 0 000000 0 0000	000000 000000 0	000000 00000
40 09480(00090) 5 800001 0300CB 5 800008 3306BE 5 800001 030AE5 0 000000 000000 0 000000 0	000000 000000 5	800008 33FEB
41 09487(00097) 0 000000 000000 THRU 09498(000A8)		
42 09499(000A9) 5 800008 32B636 5 800001 02DFF6 5 800008 310414 5 800001 030AB7 0 000000 000000 0	000000 000000 0	00000 00000
		C00008 33548
		800001 036DC
45 094AE(000BE) 0 000000 000000 THRU 09506(00116)		
46 09507(00117) 5 C00008 34D34D 5 C00008 33560D 5 800008 341CE5 0 000000 000000 0 000000 0	000000 000000	000000 000000
47 0950E(0011E) 0 000000 000000 THRU 09526(00136)		
48 09527(00137) 5 800008 33E275 5 800001 02C3F1 5 C00008 30FF57 0 000000 000000 0 000000 0	000000 000000	000000 00000
49 0952E(0013E) 0 000000 000000 THRU 0953C(0014C)	000000 000000 0	, 500000 00000
50 0953D(0014D) 5 800008 31264C 5 800001 0529D5 0 000000 000000 0 000000 0 000000 0	000000 000000	000000 00000
	000000 000000	000000 00000
53 0955B(0016B) 5 C00008 340448 5 800001 05CC4E 0 000000 000000 0 000000 0 000000 0 0000	000000 000000 0	000000 000000
MANUAL MANUAL MANUAL AND AND AND AND AND AND AND AND AND AND		
54 09562(00172) 0 000000 000000 THRU 095D1(001E1)		00000 00000
55 095D2(001E2) 5 800008 317543 5 800001 046E26 5 800008 34F5E5 5 800008 340FE6 5 800001 02D6B3 0		
55 095D2(001E2) 5 800008 317543 5 800001 046E26 5 800008 34F5E5 5 800008 340FE6 5 800001 02D6B3 0 56 095D9(001E9) 0 000000 000000 0 000000 000000 0 00000	800008 3346A9 5	800001 0510F
55 095D2(001E2) 5 800008 317543 5 800001 046E26 5 800008 34F5E5 5 800008 340FE6 5 800001 02D6B3 0 56 095D9(001E9) 0 000000 000000 0 000000 000000 0 00000	800008 3346A9 5	
55 095D2(001E2) 5 800008 317543 5 800001 046E26 5 800008 34F5E5 5 800008 340FE6 5 800001 02D6B3 0 56 095D9(001E9) 0 000000 000000 0 000000 0 000000 0 0000	800008 3346A9 5 000000 000000 0	5 800001 0510F 0 000000 00000
55 095D2(001E2) 5 800008 317543 5 800001 046E26 5 800008 34F5E5 5 800008 340FE6 5 800001 02D6B3 0 56 095D9(001E9) 0 000000 000000 0 000000 000000 0 00000	800008 3346A9 5 000000 000000 0	5 800001 0510F 0 000000 00000

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T 4	0971F(0032F)	5	C00008	35CA22	5 00	20008	SAEVER	5 800008	2/2555	_	000000	000000	$\overline{}$	000000	000000	0.0	200000	000000	0 000000	000000	11
1 2	09726(00336)							0 000000											5 800001		2
3	0972D(0033D)			000000	THRU	09760	(0037C)			9.	1		_								3
4				pus P	18	thai	(miles			8 9	/		NEW	\					my is the		4
5			•	loon) i	rick	DIVE	». • · · · · · · · · · · · · · · · · · ·		હ	P	•	,	Man 1	U				_	hend in		5
19	INPUT: MD 49									- 1											_[6
1.4	4917A(00000)							0 000000				2300DC			11DCDE	-		000380	0 000000		6
1 3	49181(00007)						000107	0 000000				000001		000000		-		_000008			
13	49188(0000E) 4918F(00015)			O00000			000000	0 000000										80E9E3	0 000000		
111	49196(0001C)							5 800000							6100ED				0 05B000		
12	4919D(00023)							O 3AFB63						000000				400002	2 800000		12
13	491A4(0002A)			031907			000000	0 000000				ADOOB2		000000				F12003	0 000000		13
14	491AB(00031)	0	000000	000000			000000	0 088020		5	800000	436EOD	0	000000	000000	0 (00000	000000	5 800001	9100B6	14
15	491B2(00038)	0	000000	000000				0 000000		0	000000	000000			000000			000000	0 000000		
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118	491C7(0004D)			788BCA				0 000044				000000		000C19		0 9	000000	000004	0 000019		
13	491CE(00054)			000000			00FF8E	0 000000				017FFE		000000				004469 50E003	0 000000		
54	491D5(0005B) 491DC(00062)			000000			0E0404	0 000000			007555	000000						00001D	0 000000		
60	491E3(00069)			000000			000000	0 007FFF							000000			00001E	5 E00005		
23	491EA(00070)			000070			000000	0 000000										000000	0 000000		
24	491F1(00077)											0000BC	0	000000	000000				0 000000		
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33	INPUT: MD C5	7 A F	FOR 1				/۸۵۰ ا	1000													32
33	C57AF(00000)			E2D200			[Max.	000													33
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36	INPUT: MD E9																				_ 36
37	OE9F3(00000)	-		-	0 D.	7D9D6	C706D6	O C2D1C5	C3E3O3	0	D1E2C4	07D4C5	0	D4C4E4	D4D707	0 (C5E7C1	D4D7D3	O C50000	000000	37
38	OE9FA(00007)	0	FEDFED	FEDFED																	38
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49	TAIDLIT. NO OCC	250	EOD 6																		40
41	INPUT: MD 3C2 3C2F8(00000)			002100	0.00	OE 2CE	C740C1	A DODGC1	E940CE	^	nanane	DQ407C	Λ	404DE0	FOEOEO	0	E 1 E 2 E 0	FOSDSC			42
43	30218(00000)		002401	002100	0 00	JEZUJ	074001	0 030301	204003		030300	034070		404010	101010		11 31 0	1 03030			43
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