



AMDAHL
a Fujitsu company

Millennium Global Servers

2000C and 2000E Series Specifications

- ▶ **Extra flexibility for changing business conditions**
- ▶ **QuickAvailability features for non-disruptive operations**
- ▶ **Lower total cost of ownership**

The features and specifications outlined below contribute to the utility of Millennium™ Global Servers for today's demanding environments. For the most current information on Millennium Global Servers, see <http://www.amdahl.com/doc/products/compatible/Millennium/Millennium.html>

Flexibility features

ConServ™	Concurrent Service of firmware, channels, and fans
Coupling Domain™	Parallel Sysplex coupling facility functionality in a domain
Disaster Recovery Program (DRP)	Standby CPUs for short-term use in an emergency
Dynamic Channel Mapping™	I/O configuration and diagnostic flexibility
Internal Coupling Server (ICS)	Isolated CPUs for coupling server use
Multiple Domain Feature™ (MDF™)	Up to 15 domains
Enhanced Multiple Server Feature™ (MSF)*	Up to 15 servers
QuickAvailability™	Dynamic: QuickCapacity™, QuickSwitch™, QuickChannels™ Dynamic: QuickMemory™*
Xtra Capacity Option (XCO)	Standby CPUs for non-disruptive capacity upgrades

*Contact your Amdahl representative for availability of this feature.

Advanced technology and design

Single system board	All CPUs, memory, I/O processors, System Control Unit
Processor design	Up to 16 CPUs
Connectivity	Up to 512 channels
Chip technology	.18μ complementary metal oxide semiconductor (CMOS)
Level 1 cache (high-speed buffer)	256 KB per CPU, split equally between instructions and data
Level 2 cache	2 MB per CPU, up to 32 MB total

Physical characteristics of air-cooled 2000C and liquid-cooled 2000E

	Minimum Configuration (Air: GS2015C: 2 GB, 32 Channels) (Liquid: GS2018E, 2 GB, 32 Channels)		Maximum Configuration (Air: GS2165C, 64 GB, 64 Channel Slots) (Liquid: GS2168E: 64 GB, 64 Channel Slots)		Transformer Single Feed Liquid-cooled Minimum*	Transformers Dual Feed Liquid-cooled Maximum*
	Frame B/A Air	Frame B/AL/D Liquid*	Frame X/B/A/C/Y Air	Frame X/B/AL/D/C/Y Liquid*	Frame B/AL/D	Frame B/AL/D
Floor space without service clearance	16.1 sq ft 1.5 sq m	21.5 sq ft 2.0 sq m	32.3 sq ft 3.0 sq m	36.6 sq ft 3.4 sq m	4.9 sq ft 0.46 sq m	10.0 sq ft 0.92 sq m
Floor space with service clearance	43.0 sq ft 4.0 sq m	57.0 sq ft 5.3 sq m	86.1 sq ft 8.0 sq m	88.2 sq ft 8.2 sq m	13.4 sq ft 1.25 sq m	23.6 sq ft 2.20 sq m
Approximate weight	2,200 lb 1,000 kg	2,315 lb 1,050 kg	3,352 lb 1,520 kg	4,145 lb 1,880 kg	606 lb 275 kg	1,213 lb 550 kg
Approximate power requirements (50/60 Hz: 200-240 Vac, 380-415 Vac; 3 phase)	2.8 kVA	6.7 kVA	6.2 kVA	10.2 kVA	0.1 kVA	0.2 kVA
Approximate heat dissipation	9.2 kBTu/hr	21.7 kBTu/hr	20.1 kBTu/hr	33.2 kBTu/hr	0.1 kBTu/hr	0.2 kBTu/hr

*In the liquid-cooled 2000E systems, there may be a requirement for 380/400/415 volt transformers in some installations in Europe and Australia. These transformers will be provided with the processor.

Single Feed - 1 transformer

Dual Feed - 2 transformers

Advanced Address Space

Memory

Minimum	Maximum	Configurations
2 GB	64 GB	2 GB, 3 GB, 4 GB, 5 GB, 6 GB, 7 GB, 8 GB, 10 GB, 12 GB, 16 GB, 20 GB, 24 GB, 32 GB, 40 GB, 48 GB, 64 GB

Channels

	Minimum Configuration	Maximum Configuration	Increments
Total	32	512	—
FICON*	0	64	1
ESCON	0	512	8
Parallel	0	192	4
Amdahl Fast Hiperlinks	0	64	1
OSA	0	64	1

*Contact your Amdahl representative for availability of this feature.

Upgrade paths

All models are upgradeable within their series or to a higher capacity series.

Model Nomenclature

(Example: Millennium GS2025C and GS2028E)

Letter 1 & 2	GS = Global Server
Digit 3	2 = Millennium 2000 Family
Digit 4 & 5	Number of engines (01 through 16)
Digit 6	Engine speed 5, 8 = full speed 0, 1, 2, 3, 4 = degraded
Letter 7	C or E = Series designation

Supported operating systems

OS/390 1.1.0, 1.2.0, 1.3.0, 2.4.0, 2.5.0, 2.6.0, 2.7.0, 2.8.0, and 2.9.0
MVS/ESA 5.1.0, 5.2.0, and 5.2.2
VM/ESA 2.2.0, 2.30, and 2.4.0
VSE/ESA 2.1.0, 2.2.0, 2.30, and 2.4.0
TPF 4.1 and TPF HPO 4.1
UTS 2.1.5, 2.1.7, 4.3.2, 4.3.3, and 4.4.0

Millennium GS2000C models

Model	Capacity Range*	MIPS	MSUs	S/W Group	CPUs
GS2011C	0.89 - 0.98	75	13	40	1
GS2012C	0.96 - 1.06	81	14	40	1
GS2013C	1.40 - 1.55	118	21	50	1
GS2014C	1.78 - 1.97	150	26	60	1
GS2015C	1.91 - 2.11	161	27	60	1
GS2021C	2.60 - 2.87	219	37	70	2
GS2022C	2.77 - 3.06	233	40	80	2
GS2023C	3.34 - 3.69	281	47	80	2
GS2025C	3.65 - 4.03	307	53	80	2
GS2031C	4.05 - 4.48	341	58	80	3
GS2032C	4.54 - 5.01	382	64	80	3
GS2035C	5.33 - 5.89	449	75	80	3
GS2041C	5.71 - 6.31	481	80	80	4
GS2042C	6.15 - 6.80	518	87	IMLC	4
GS2043C	6.29 - 6.96	530	91	IMLC	4
GS2045C	6.96 - 7.69	586	98	IMLC	4
GS2052C	7.62 - 8.43	642	109	IMLC	5
GS2055C	8.42 - 9.31	709	121	IMLC	5
GS2061C	8.89 - 9.83	749	129	IMLC	6
GS2062C	9.07 - 10.03	764	131	IMLC	6
GS2065C	9.80 - 10.83	825	141	IMLC	6
GS2072C	10.40 - 11.50	876	152	IMLC	7
GS2075C	11.10 - 12.27	935	162	IMLC	7
GS2082C	11.70 - 12.93	985	172	IMLC	8
GS2085C	12.35 - 13.65	1040	181	IMLC	8
GS2092C	12.97 - 14.33	1092	190	IMLC	9
GS2095C	13.59 - 15.02	1144	200	IMLC	9
GS2100C	12.88 - 14.24	1085	188	IMLC	10
GS2101C	13.41 - 14.82	1129	196	IMLC	10
GS2102C	14.19 - 15.68	1195	209	IMLC	10
GS2105C	14.81 - 16.37	1247	218	IMLC	10
GS2112C	15.41 - 17.04	1298	226	IMLC	11
GS2115C	16.01 - 17.69	1348	235	IMLC	11
GS2121C	15.54 - 17.18	1309	226	IMLC	12
GS2122C	16.63 - 18.38	1400	243	IMLC	12
GS2125C	17.21 - 19.02	1449	252	IMLC	12
GS2132C	17.74 - 19.61	1494	260	IMLC	13
GS2135C	18.26 - 20.19	1538	267	IMLC	13
GS2142C	18.75 - 20.72	1579	274	IMLC	14
GS2145C	19.24 - 21.26	1620	282	IMLC	14
GS2152C	19.69 - 21.76	1658	288	IMLC	15
GS2155C	20.13 - 22.25	1695	295	IMLC	15
GS2162C	20.54 - 22.71	1730	301	IMLC	16
GS2165C	20.95 - 23.15	1764	307	IMLC	16

* = Capacity range compared to Millennium GS715 at 80 MIPS.

Millennium GS2000E models

Model	Capacity Range*	MIPS	MSUs	S/W Group	CPUs
GS2014E	1.10 - 1.22	93	16	50	1
GS2018E	2.21 - 2.44	186	32	70	1
GS2024E	3.19 - 3.53	269	47	80	2
GS2028E	4.22 - 4.66	355	62	80	2
GS2034E	5.21 - 5.76	439	75	80	3
GS2038E	6.15 - 6.80	518	89	IMLC	3
GS2044E	7.07 - 7.81	595	103	IMLC	4
GS2048E	8.03 - 8.87	676	116	IMLC	4
GS2054E	8.87 - 9.80	747	129	IMLC	5
GS2058E	9.71 - 10.74	818	141	IMLC	5
GS2064E	10.49 - 11.59	883	153	IMLC	6
GS2068E	11.31 - 12.50	952	165	IMLC	6
GS2074E	12.03 - 13.30	1013	176	IMLC	7
GS2078E	12.81 - 14.16	1079	188	IMLC	7
GS2084E	13.55 - 14.98	1141	198	IMLC	8
GS2088E	14.25 - 15.75	1200	208	IMLC	8
GS2094E	14.96 - 16.54	1260	219	IMLC	9
GS2098E	15.68 - 17.33	1320	229	IMLC	9
GS2104E	16.36 - 18.09	1378	240	IMLC	10
GS2108E	17.08 - 18.87	1438	250	IMLC	10
GS2114E	17.79 - 19.66	1498	260	IMLC	11
GS2118E	18.48 - 20.42	1556	270	IMLC	11
GS2124E	19.18 - 21.20	1615	280	IMLC	12
GS2128E	19.86 - 21.95	1672	290	IMLC	12
GS2134E	20.41 - 22.56	1719	298	IMLC	13
GS2138E	20.97 - 23.18	1766	306	IMLC	13
GS2144E	21.49 - 23.76	1810	314	IMLC	14
GS2148E	22.02 - 24.33	1854	321	IMLC	14
GS2154E	22.49 - 24.86	1894	328	IMLC	15
GS2158E	22.97 - 25.38	1934	335	IMLC	15
GS2164E	23.41 - 25.87	1971	342	IMLC	16
GS2168E	23.86 - 26.34	2007	348	IMLC	16

* = Capacity range compared to Millennium GS715 at 80 MIPS.

AMDAHL[®]

a Fujitsu company

Worldwide Headquarters

Amdahl Corporation
1250 East Arques Avenue
Sunnyvale, CA 94088-3470
United States of America
Tel: 408 746 6000
Fax: 408 746 3243
Internet: www.amdahl.com

North America

United States of America

Tel: 800 223 2215
Fax: 800 678 5793

Canada

Tel: 416 510 3111
Fax: 416 510 3353

Europe

(covering Austria, Belgium, Denmark, France, Germany, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom)

For your local Amdahl office, please access:

www.amdahl.com/europe/offices

or email:

Amdahl_In_Europe@amdahl.com

Asia

Amdahl Asia Services Sdn.Bhd
Tel: +60 3 794 7233
Fax: +60 3 794 9911

Australia and New Zealand

Sydney
Tel: +61 2 9776 4800
Fax: +61 2 9776 4801
Wellington
Tel: +64 4 495 9900
Fax: +64 4 495 9911

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MM002854-US-008 [1:330] 10/00