Model 990 Computer

DNOS DNCS/SNA
Object Installation

Part No. 2302636-9701 ∗∗
1 May 1982

READ FIRST

Contents

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|                                                               |
| READ THIS DOCUMENT BEFORE ATTEMPTING TO  USE  THE  OBJECT KIT. |
| THIS  DOCUMENT  DESCRIBES  THE  DNCS/SNA  EMULATOR RELEASE 1.0 |
| OBJECT INSTALLATION MEDIA, PART NUMBER  2308308-1601 (DISK  OR |
| TAPE)   OR  2308308-1602  (DISKETTE).   REFER  TO  THE RELEASE |
| INFORMATION,  PART   NUMBER   2308310-9901  FOR    ADDITIONAL  |
| INFORMATION.                                                   |
|                                                               |
|                                                               |
| TEXAS  INSTRUMENTS  ASSUMES NO RESPONSIBILITY FOR MODIFICATIONS|
| MADE TO THIS OBJECT KIT.                                       |
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Section 1

Introduction

1.1 GENERAL INFORMATION

This document describes the installation of the DNCS/SNA Emulator object package under DNOS. The media must be restored to disk (if supplied on magnetic tape) or used directly (if supplied on disk or diskette).

Be sure to copy and/or write protect the installation media. For copy procedures, refer to the Model 990 Computer DNOS Operations Guide, part number 2270502-9701.

Consult the Release Information for additional information concerning the current release.

This document presents many System Command Interpreter (SCI) commands in batch format. You can use these commands either by entering the entire command as shown or by entering only the command keyword and responding to the interactive prompts. For a discussion of the batch command format, refer to the Model 990 Computer DNOS System Command Interpreter (SCI) Reference Manual, part number 2270503-9701.

1.2 MEDIA DEFINITION

Product shipments are made in the following formats:

   * Disk -- A DS10, DS50, DS200, or CD1400 disk containing
      the object

   * Diskette -- A double-sided, double-density (DSDD)
      diskette containing the object

   * Magnetic Tape -- An 800 or 1600 bits-per-inch (bpi)
      magnetic tape containing the object

   * Add-On -- A disk containing the object and one or more
      other products

1.3 INSTALLATION OVERVIEW

The installation process described in this document provides the
steps required to install the DNCS/SNA Emulator object.   These
procedures are outlined as follows:

   * Install the DNCS/SNA station tasks.

   * Patch the DNCS/SNA station tasks.

   * Generate the DNCS/SNA Programmed Station Control (PSC)
      tasks.

   * Install the DNCS/SNA PSC tasks.

   * Patch the DNCS/SNA PSC tasks.

1.4 SYSTEM REQUIREMENTS

To perform these installation procedures successfully, you must
have DNOS (Release 1.0.0 or later) running on a Model 990/10 or
990/12 Computer with at least 512K bytes of memory.

Section 2

Preparing for Installation

2.1 GENERAL

The DNCS/SNA Emulator object is shipped on various media and must be prepared prior to installation. This section describes how to prepare each type of media.

2.2 DOUBLE-SIDED, DOUBLE-DENSITY (DSDD) DISKETTE FORMAT

When you receive the object on DSDD diskette, perform the following steps to prepare it for installation:

1. Load the DNCS/SNA Emulator object diskette DCEMO in an available drive and make it ready. Disable the diskette write protection.

2. Install the diskette volume by using the Install Volume (IV) command as follows:

        IV U=<dsxx>, V=DCEMO

    where:

    <dsxx> is the name of the drive where the diskette is loaded.

3. Proceed to paragraph 3.1 to continue the installation.

2.3 DISK FORMAT

When you receive the object on disk, perform the following steps:

1. Load the DNCS/SNA Emulator object disk DCEMO in an available drive and make it ready. Disable the disk write protection.

2. Install the disk volume by using the IV command as follows:

    IV U=<dsxx>, V=DCEMO

   where:

   <dsxx>   is the name of the drive where the disk is loaded.

3. Proceed to paragraph 3.1 to continue the installation.

2.4 MAGNETIC TAPE FORMAT

When you receive the object on magnetic tape, copy it to a disk as follows:

1. Create the DNCS/SNA Emulator object directory on an available disk by using the CDFIR command as follows:

    CFDIR P=<dncsvolume>.DCEMO, M=50

   where:

   <dncsvolume>   is the name of the disk where you create the directory.

2. Assign the synonym DCEMO to the DNCS/SNA Emulator object directory by using the Assign Synonym (AS) command as follows:

    AS S=DCEMO, V=<dncsvolume>.DCEMO

   where:

   <dncsvolume>   is the name of the disk that contains the DNCS/SNA Emulator object directory.

3. Mount the magnetic tape on an available tape drive and make it ready. Enable the tape write protection.

4. Copy the contents of the tape to the DNCS/SNA Emulator object directory by using the Restore Directory (RD) command as follows:

        RD S=<mtxx>, D=DCEMO, L=.LISTING

   where:

   <mtxx> is the name of the drive where the tape is mounted.

   The file .LISTING contains a listing of the directory restored from magnetic tape. Check this file for errors by using a Show File (SF) or Print File (PF) command.

5. Unload the tape.

6. Proceed to paragraph 3.1 to continue the installation.

2.5 ADD-ON FORMAT

When you receive the object as an add-on, perform the following steps:

1. If you receive the DNCS/SNA Emulator object add-on on the system disk and the system is running under that disk, then assign the synonym DCEMO to the DNCS/SNA Emulator object directory by using the AS command as follows:

        AS S=DCEMO, V=.DCEMO

   Proceed to paragraph 3.1 to continue the installation.

2. If you receive the DNCS/SNA Emulator object add-on on a secondary disk, then load this disk in an available drive and make it ready. Disable the disk write protection.

3. Install the disk volume by using the IV command as follows:

    IV U=<dsxx>, V=<dncsvolume>

where:

<dsxx>   is the name of the drive where the disk is loaded.

<dncsvolume>   is the volume name of the add-on disk.

4. Assign the synonym DCEMO to the DNCS/SNA Emulator object directory by using the AS command as follows:

    AS S=DCEMO, V=<dncsvolume>.DCEMO

where:

<dncsvolume>   is the name of the disk that contains the DNCS/SNA Emulator object directory.

5. Proceed to paragraph 3.1 to continue the installation.

Section 3

Installing the DNCS/SNA Emulator Tasks

3.1 GENERAL

The procedures in this section describe how to install and patch
the DNCS/SNA Emulator tasks.

3.2 INSTALLING THE EMULATOR TASKS

Perform the following steps to install the DNCS/SNA Emulator
tasks:

   1. Enter the following command to access the DNCS/SNA
      Emulator object installation SCI procedures:

          .USE DCEMO.RELEASE.PROC,.S$CMDS

   2. Install the DNCS/SNA Emulator tasks on a DNCS system by
      using the Install DNCS/SNA Emulator Tasks (INSEM)
      command as follows:

          [] INSEM

          INSTALL DNCS/SNA EMULATOR TASKS
            DNCS/SNA EMULATOR DIRECTORY: DCEMO
                  DNCS SYSTEM VOLUME:
            DNCS COMMAND DIRECTORY:

      DNCS/SNA EMULATOR DIRECTORY
          Enter the directory name where the DNCS/SNA
          Emulator object directory resides.   The proper
          response is DCEMO.

      DNCS SYSTEM VOLUME
          Enter the directory (or volume) name where the
          DNCS Nucleus program file .S$DNCS.PGMTASK resides.
          This must be the same system volume entered in the
          INSFW command described in the DNCS Nucleus task
          installation.

DNCS COMMAND DIRECTORY
Enter the directory name where you want to install the DNCS/SNA Emulator SCI procedures. This name must be the same as the command directory entered in the Install DNCS Nucleus Tasks (INSFW) command described in the DNCS Nucleus Object Installation, part number 2302660-9701.

3. The following messages are displayed at the station after you enter INSEM. Respond to each message by pressing RETURN.

    BATCH LISTING FILE WILL BE...:

    ´<dcemo>.BL.INSEM´:

where:

<dcemo> is the value of the synonym DCEMO.

4. Wait for INSEM to complete by using the Waiting for Background Task to Complete (WAIT) command as follows:

    []WAIT

5. When INSEM completes, the following message is displayed at the station:

    BATCH SCI HAS COMPLETED

Press the RETURN key to display the following additional message:

    x ERRORS IN INSEM BATCH STREAM:

If the number of errors reported is nonzero, examine the file <dcemo>.BL.INSEM by using a Show File (SF) command to determine the cause of the error(s). Correct the error(s) and reenter INSEM.

3.3 PATCHING THE DNCS/SNA EMULATOR TASKS

Perform the following steps to patch the DNCS/SNA Emulator tasks:

1. Patch the DNCS/SNA Emulator tasks by using the Patch DNCS/SNA Emulator Tasks (PATEM) command as follows:

   []PATEM

   PATCH DNCS/SNA EMULATOR TASKS
      DNCS/SNA EMULATOR DIRECTORY: DCEMO
            DNCS SYSTEM VOLUME:
         DNCS PATCH DIRECTORY:

   DNCS/SNA EMULATOR DIRECTORY
      Enter the directory name where the DNCS/SNA Emulator object directory resides. The default is DCEMO, the value entered in the INSEM command.

   DNCS SYSTEM VOLUME
      Enter the directory (or volume) name where the DNCS Nucleus program file .S$DNCS.PGMTASK resides. The default is the value entered in the INSEM command.

   DNCS PATCH DIRECTORY
      Enter the directory name where the patch sub-directories reside. The standard response is DCEMO. Otherwise, enter the directory name containing the .PATCH directory.

2. The following messages are displayed at the station after PATEM is entered. Respond to each message by pressing RETURN.

   BATCH LISTING FILE WILL BE...:

   ´<dcpat>.PATCH.LSTEM´:

   where:

   <dcpat> is the value entered for the DNCS PATCH DIRECTORY prompt (synonym expanded).

3. Wait for PATEM to complete by using the WAIT command as follows:

   []WAIT

4. When PATEM completes, the following message is displayed at the station:

   x ERRORS IN DNCS/SNA EMULATOR PATCH STREAM:

   If the number of errors reported is nonzero, examine the file <dcpat>.PATCH.LSTEM by using an SF command to determine the cause of the error(s). Correct the error(s) and reenter PATEM.

5. Proceed to paragraph 4.1 to continue the installation.

Section 4

Installing the Programmed Station Control Tasks

4.1 GENERAL

This section describes the procedures used to generate the DNCS/SNA Programmed Station Control (PSC) tasks, install the tasks on a DNOS system, and patch the tasks. Skip this section if the DNCS/SNA PSC tasks are not required. The generation process requires that the DNCS generation directory be accessible for the particular configuration. This directory is built during the DNCS Nucleus task generation as described in the DNCS Nucleus Object Installation.

4.2 GENERATING THE DNCS/SNA PSC TASKS

Perform the following steps to generate the DNCS/SNA PSC tasks:

1. Enter the following command to access the DNCS/SNA Emulator object installation SCI procedures:

   .USE DCEMO.RELEASE.PROC,.S$CMDS

2. Assemble and link the DNCS/SNA PSC tasks by using the Assemble and Link DNCS PSC Tasks (ALPSC) command as follows:

   []ALPSC

   ASSEMBLE AND LINK DNCS PSC TASKS
      DNCS/SNA EMULATOR DIRECTORY: DCEMO
        DNCS GENERATION DIRECTORY:
                    CONFIGURATION:

   DNCS/SNA EMULATOR DIRECTORY
        Enter the directory name where the DNCS/SNA
        Emulator object directory resides. The default is
        DCEMO, the value entered in the INSEM command.

DNCS GENERATION DIRECTORY
Enter the directory name where the DNCS configuration file resides. The proper response is the value entered for the DNCS GENERATION DIRECTORY prompt in the Execute DNCS System Generation Utility (XDGU) command described in the DNCS Nucleus task installation procedure.

CONFIGURATION
Enter the name of the DNCS configuration. The proper response is the value entered for the OUTPUT CONFIGURATION prompt in the XDGU command described with DNCS Nucleus task installation.

3. The following messages are displayed at your station after you enter ALPSC. Respond to each message by pressing RETURN.

BATCH STATUS FILE WILL BE...:

´<custom>.LIST.PSCLOG´:

where:

<custom> is the pathname defined by the concatenation of the DNCS GENERATION DIRECTORY response, the value .SDGU, and the CONFIGURATION response.

4. Wait for ALPSC to complete by using the Waiting for Background Task to Complete (WAIT) command as follows:

[]WAIT

5. When ALPSC completes, the following message is displayed at the station:

BATCH SCI HAS COMPLETED

Press the RETURN key to receive the following additional message:

===>x ERRORS IN ALPSC BATCH STREAM:

If the number of errors reported is nonzero, examine the files <custom>.LIST.PSCLOG and <custom>.LIST.ALPSC by using a Show File (SF) command to determine the cause of the error(s). Correct the error(s) and reenter ALPSC.

4.3 INSTALLING THE DNCS/SNA PSC TASKS

Perform the following steps to install the DNCS/SNA PSC tasks.

1. Install the DNCS/SNA PSC tasks on a DNOS system by using the Install DNCS PSC Tasks (INSPSC) command as follows:

   []INSPSC

   ```
   INSTALL DNCS PSC TASKS
     DNCS/SNA EMULATOR DIRECTORY: DCEMO
       DNCS GENERATION DIRECTORY:
                   CONFIGURATION:
               DNOS SYSTEM VOLUME:
           DNCS COMMAND DIRECTORY:
   ```

   DNCS/SNA EMULATOR DIRECTORY
        Enter the directory name where the DNCS/SNA Emulator object directory resides. The default is DCEMO, the value entered in the ALPSC command.

   DNCS GENERATION DIRECTORY
        Enter the directory name where the DNCS configuration file resides. The default is the value entered in the ALPSC command.

   CONFIGURATION
        Enter the name of the DNCS configuration. The default is the value entered in the ALPSC command.

   DNOS SYSTEM VOLUME
        Enter the directory (or volume) name where the .S$UTIL program file resides.

   DNCS COMMAND DIRECTORY
        Enter the directory name where you want to install the DNCS/SNA PSC SCI . procedures. This name must be the same command directory entered in the INSFW command described with DNCS Nucleus task installation.

2. The following messages are displayed at the station after you enter INSPSC. Respond to each message by pressing RETURN.

   BATCH LISTING FILE WILL BE...:

   ´<custom>.LIST.INSPSC´:

where:

   <custom> is the pathname defined by the concatenation of the DNCS GENERATION DIRECTORY response, the value .SDGU, and the CONFIGURATION response.

3. Wait for INSPSC to complete by using the WAIT command as follows:

   []WAIT

4. When INSPSC completes, the following message is displayed at the station:

   BATCH SCI HAS COMPLETED

Press the RETURN key to receive the following message:

   x ERRORS IN INSPSC BATCH STREAM:

If the number of errors reported is nonzero, examine the file <custom>.LIST.INSPSC by using an SF command to determine the cause of the error(s). Correct the error(s) and reenter INSPSC.

4.4   PATCHING THE DNCS/SNA PSC TASKS

Perform the following steps to patch the DNCS/SNA PSC tasks.

1. Patch the DNCS/SNA PSC tasks by using the Patch DNCS PSC Tasks (PATPSC) command as follows:

   []PATPSC

   PATCH DNCS PSC TASKS
      DNCS/SNA EMULATOR DIRECTORY: DCEMO
       DNCS GENERATION DIRECTORY:
                   CONFIGURATION:
               DNOS SYSTEM VOLUME:
           DNCS PATCH DIRECTORY: DCEMO

DNCS/SNC EMULATOR DIRECTORY
    Enter the directory name where the DNCS/SNA
    Emulator object directory resides. The default is
    DCEMO, the value entered in the INSPSC command.

DNCS GENERATION DIRECTORY
    Enter the directory name where the DNCS
    configuration file resides. The default is the
    value entered in the INSPSC command. Otherwise,
    enter the directory name containing the .SDGU
    directory.

CONFIGURATION
    Enter the name of the DNCS configuration. The
    default is the value entered for INSPSC.

DNOS SYSTEM VOLUME
    Enter the directory (or volume) name where the
    .S$UTIL program file resides.

DNCS PATCH DIRECTORY
    Enter the directory name where the patch sub-
    directories reside. The standard response is
    DCEMO. Otherwise, enter the directory name
    containing the .PATCH directory.

2. The following messages are displayed at the station
   after PATPSC is entered. Respond to each message by
   pressing RETURN.

        BATCH LISTING FILE WILL BE...:

        ´<dcpat>.PATCH.LSTPSC´:

   where:

   <dcpat> is the value entered for the DNCS PATCH
           DIRECTORY prompt.

3. Wait for PATPSC to complete by using the WAIT command
   as follows:

        []WAIT

4. When PATPSC completes, the following message is
   displayed at the station:

        x ERRORS IN PSC EMULATOR PATCH STREAM:

   If the number of errors reported is nonzero, examine
   the file <dcpat>.PATCH.LSTPSC by using an SF command to
   determine the cause of the error(s). Correct the
   error(s) and reenter PATPSC.

4.5 COMPLETING THE TASK INSTALLATION

Perform an initial program load (IPL) in order to load the DNCS/SNA PSC memory resident tasks into memory.