

| RELEASE INFORMATION, DNOS PRODUCTS PATCH
UPDATE SERVICE, RELEASE 1.17.0-990

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T E X A S I N S T R U M E N T S | P A R T N U M B E R | R E V I S I O N | P A G E
Data Systems Group | 2302608-9901 | *T | 1 OF 52
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WARNING

This patch release contains updates to allow DNOS 1.3 to access the CT60 cartridge tape drive (SCSI tape) and the DB182 and DB380 disk drives (SCSI disk). Certain utilities and tape operations will have unexpected results if these updates are not installed as described. If you plan to use either of these devices, be sure to read the NEW FUNCTIONS and SCSI CHANGES sections of this document prior to building a system.

In order to build an operating system on the DB182 or DB380 from tape, a new "BUILD" tape is required. This tape will be contained in any new systems ordered with software and temporarily with each SCSI disk. However, it will not be shipped with "secondary units" or "piece parts" ordered without software on a continuing basis. The build tape required is part number 2540206-1301 rev. *C. Additionally, the *C revision corrects the problem of changing the Physical Record Length, PRL, for a disk, and will correctly set the default value for the DB182/DB380 disks to 1024 bytes (2 sectors).

NOTE

In order to decrease the time required to apply DNOS KERNEL and UTILITY patches, the structure of the patch files has been changed. The first and most noticeable change is that there are two new patch files. They are KERNELFE and UTILFE. These are called the "front end" patch files. They contain the bulk of the patches that were formerly in the KERNEL and UTILITY files. The KERNEL and UTILITY patch files will automatically execute the front end patch files if, and only if, the front end patches have not been previously applied error free. This will cause the first application of the patches to

take about the same amount of time as before, but all successive applications to the same system will run in a fraction of the time of the original application.

Another change that may be noticed is that most of the records in the patch files will not appear in the batch listing file. This will reduce the disk space required to store these files and reduce the application time by not requiring as many records to be written to the listing files.

SECTION 1

USER INFORMATION

Patches are maintained by Texas Instruments and are available to TI-CARE Support Services contract customers. The current released patches for the DNOS system family software are shipped with the initial DNOS license. Subsequent patch releases will be shipped to customers who have a support agreement.

TI-CARE Support Services provides new patches that are developed between patch releases on an as needed basis over the telephone or by communications link. If you have a support agreement, you may call (512)-250-7407 to request patch files that have been updated since this patch release. A detailed explanation will be provided on how to apply the patches to your system. It is recommended that you call TI-CARE Support Services to get the latest patches prior to installation of the product.

Patches are shipped initially with the DNOS license on the same media as that requested for DNOS, that is, either as a hard disk addon, magnetic tape, or on a double-sided, double-density (DSDD) diskette. Subsequent patch releases are shipped on the same media as the initial license, except that microfiche cards are sent in place of hard media. The Media Change Form (P/n 2302609-9901) contained in this patch release kit can be used to change the media for subsequent patch updates.

WARNING

Some of the product patches contained in this patch release may be superceded by a new release of that product. Do not apply patches in this release to products that fall in this category. Section 4 describes the applicable product releases for this patch release. Be sure to read the directions in each batch stream before applying the patches for any of the products.

Patches received on microfiche must in most cases be typed into a file and then applied via an Execute Batch (XB) command. In several cases, they may be manually applied via an individual

Modify Program Image (MPI) or Modify Relative to File (MRF) command. Apply patches as a set; do not select and apply some of the patches in a file.

Completely verify each MPI or MRF prior to executing the command. Patching the wrong word(s) will be disastrous.

Patches received on magnetic tape media can be copied via Restore Directory (RD) command to a disk, or to a directory on your disk, and then applied via Execute Batch (XB) command unless otherwise directed in the instruction section. Patches received on disk media may be applied via Execute Batch (XB) from the disk media or may be copied via Copy Concatenate to your disk and then applied.

Patch files that require the placement of the patch on an object disk or in a specific directory must be copied to the location given in the instructions section for proper execution. These files may be copied over to the indicated location using the Copy Concatenate (CC) procedure.

SECTION 2

UPDATES TO DNOS 1.3.0

Upgrades for driving the CT60 tape drive, DB182 disk drive, and DB380 disk drive are supplied in the ".SPCL117" directory. Installation instructions are in the "SPECIAL INSTRUCTIONS" section of this document. Please use the supplied "INSTALL" procedure to insure proper installation of the upgrades.

NOTE

In order to use the CT60 tape drive or the DB182/DB380 disk drive, the upgrades in the ".SPCL117" directory and all UTILITY patches must be installed prior to building the system that will access either of these devices. If these steps are omitted, some utilities, when used with these devices, will terminate abnormally, while others will appear to work correctly even though they actually failed. See the SCSI CHANGES section of this document for a list of these utilities. Using the supplied "INSTALL" procedure will insure that all updates and patches are installed in the proper order.

SECTION 3

NEW FUNCTIONS FOR DNOS 1.3.0

With this issue of the patches, all new functions introduced in patch release 1.15 and 1.16 have been combined with the new functions of patch release 1.17. A single installation process will insure proper installation and patching. Follow the instructions in the "Special Instructions" section of this document for the proper installation of this update in patches and functionality.

The new function to verify magnetic tape (upgraded to work with the CT60 tape drive) is added to the utilities of the DNOS Operating System. Also supplied, is a task (PDH - Protect Disk Heads) to move the heads on an otherwise inactive Winchester type disk. It is believed that this function will assist in preventing head failures in these disks. The task is designed to use a minimum of CPU cycles and disk activity. If no winchester disks are in the system, the task will terminate. You activate the task by adding the command PDH (Protect Disk Heads) in the system start up batch stream, .S\$ISBTCH and booting (IPL) the system.

Documentation for the new Verify Magnetic Tape (VMT) function is supplied as a printable file. Instructions for installing the PDH task and the VMT processor and for printing the VMT documentation are found in the "Special Instructions" section of this document.

SECTION 4

PATHNAME INDEX

The following table lists the name of each file in the patch release and the product to which it corresponds. The files listed as being located on DNPATCH1 and DNPATCH2 will also appear under the restored directory with the same pathnames indicated below.

PRODUCTS CONTAINED ON DNPATCH1

FILE	LAST PATCH NUMBER	RELEASE AND DESCRIPTION
.SPCL117	none	DNOS OPERATING SYSTEM 1.3.0 UPDATES AND NEW FUNCTIONS
.KERNEL	4591	DNOS O. S. 1.3.0 KERNEL PATCHES
.KERNELFE	4502	DNOS O. S. 1.3.0 KERNELFE PATCHES
.UTILITY	4597	DNOS O. S. 1.3.0 UTILITY PATCHES
.UTILFE	4518	DNOS O. S. 1.3.0 UTILFE PATCHES
.DNCMO.DNPCMON	4491	COMMON COMMUNICATIONS PATCHES 1.3.0
.DNCMO.DNPCOMA	none	COMMON COMMUNICATIONS COMA PATCHES 1.3.0
.DNCMO.DNPCSWS	none	COMMON COMMUNICATIONS SOFTWARE LEVEL SCHEDULER PATCHES 1.3.0
.DNCMO.DNPPCOMM	none	COMMON COMMUNICATIONS DSR GENERATION PROCEDURES PATCHES 1.3.0
.DNCMO.UTLPAT	4147	COMMON COMMUNICATIONS UTILITY PATCHES 1.3.0
.DN378012.DNP3780	4527	3780/2780 DSR PARTS PATCHES 1.2.0
.DN378012.DNPP3780	none	3780 BUILD DSR AND TASK PROCEDURE PATCHES 1.2.0
.DN378012.DNTP3780	4465	3780 EMULATOR PATCHES 1.2.0

Note: The "LAST PATCH NUMBER" is the last non-optional patch number in the file.

PRODUCTS CONTAINED ON DNPATCH2

FILE	LAST PATCH NUMBER	RELEASE AND DESCRIPTION
.BASIC41	4001	DNOS BASIC 4.1.0 PATCHES
.CBL350	4192	DNOS COBOL 3.5.0 PATCHES
.DN327012.DNP3270	4344	3270 DSR EMULATOR PATCHES 1.2.0
.DN327012.DNPP3270	none	3270 BUILD PROCESS PROCEDURE PATCHES 1.2.0
.DN327012.PSC3270	none	3270 PSC USER TASK PATCHES 1.2.0
.DN327012.TSK3270	4439	3270 EMULATOR TASK PATCHES 1.2.0
.DNCS13.DNFCMNS	none	DNCS CMNS DSR OVERLAY PATCHES 1.3.0
.DNCS13.DNFLAP	4225	DNCS LAP DSR OVERLAY PATCHES 1.3.0
.DNCS13.DNPSDLC	4398	DNCS SDLC DSR OVERLAY PATCHES 1.3.0
.DNCS13.PAT914	none	DNCS 914A TERMINAL PATCHES 1.3.0
.DNCS13.PATEMU	4574	DNCS SNA EMULATOR PATCHES 1.3.0
.DNCS13.PATGEN	4462	DNCS SYSGEN UTILITY PATCHES 1.3.0
.DNCS13.PATNUC	4488	DNCS NUCLEUS PATCHES 1.3.0
.DNCS13.PATRFT	3812	DNCS X25/RFT PATCHES 1.3.0
.DNCS13.PUPSC	4431	DNCS PSC USER TASK PATCHES 1.3.0
.DNCS13.PURFT	none	DNCS RFT USER TASK PATCHES 1.3.0
.DNCS13.PATBLU	4489	DNCS SNA BATCH EMULATOR PATCHES 1.0.0
.DNI021.DNIOPAT	4600	DNOS DISTRIBUTED NETWORK I/O (DNI0) PATCHES 2.1.0
.FORT7813	3686	DNOS FORTRAN-78 1.3.0 PATCHES
.PASCAL18	4179	DNOS PASCAL 1.8.0 PATCHES
.SM10	4169	DNOS SORT/MERGE 1.0.0 PATCHES
.TIFRM33.LINKD820	3848	DNOS TIFORM LINKED 820 3.3.0 PATCHES
.TIFRM33.LINKD911	3848	DNOS TIFORM LINKED 911 3.3.0 PATCHES
.TIFRM33.MTASK	4367	DNOS TIFORM 3.3.0 PATCHES
.TIPE22	4178	DNOS TIPE 2.2.0 PATCHES

Note: The "LAST PATCH NUMBER" is the last non-optional patch number in the file.

SECTION 5

SPECIAL INSTRUCTIONS

5.1 DNOS OPERATING SYSTEM NEW FUNCTIONS - 1.17.0

Upgrades for driving the CT60 tape drive and DB182 disk drive are supplied in the ".SPCL117" directory. New functions VMT and PDH are also contained in the ".SPCL117" directory.

WARNING

In order to use the CT60 tape drive or the DB380 or DB182 disk drive, the upgrades in the ".SPCL117" directory and all patches must be installed prior to building the system that will access these devices. If these steps are omitted, some utilities, when used with these devices, will terminate abnormally, while OTHERS WILL APPEAR TO WORK CORRECTLY EVEN THOUGH THEY ACTUALLY FAILED. These utilities include, but are not limited to, Copy Volume (CV), Backup Directory to Device (BDD), Recover Volume Space (RVS), Copy Sequential Media (CSM), Copy Program Image (CPI), and Scan Disk (SD).

The new functions PDH, VMT, and BIDPDH are also installed by the INSTALL command. Task IDs >A6, >A7 and >AC are used in the DNOS utility program file ".S\$UTIL". These tasks should not currently be used.

WARNING

Task IDs >A6, >A7 and >AC in the file .S\$UTIL will be deleted during the execution of the installation batch stream. This will cause no problems if no tasks are currently

installed in Task ID positions >A6, >A7 and >AC. If one of the task IDs is occupied by a task of any other name, contact your software supplier before executing this batch stream. They will need to move the application occupying the required ID.

The VMT utility can be used to verify the recording capability of magnetic tape. It can also be used to check for parity errors on a tape containing data.

The PDH utility is a task to move the heads on an otherwise inactive Winchester type disk. It is believed that this function will assist in preventing sealed module failures in these disks. The task is designed to use a minimum of CPU cycles and disk activity. If no winchester disks requiring this head movement function are in the system, the task will terminate. You activate the task by adding the command PDH to the start up batch file, ".S\$ISBTCH".

You may install the updates from the distribution media, DNPATCH1, or you may consolidate the two disks into one directory on another disk. You must restore the patches on magnetic tape to a directory on a disk. To install the updates of release 1.17.0, and to insure the correct installation sequence, enter the following command sequence:

```
[ ] .USE <directory>.SPCL117,.S$CMDS
```

where <directory> is the directory pathname containing the .SPCL117 directory.

```
[ ] INSTALL
```

```
INSTALL UPDATE 1.17.0 MODULES
```

```
UPDATE VOLUME/DIRECTORY: <directory>
```

```
TARGET DISK/VOLUME: <volume>
```

```
SYSGEN DATA DISK/VOLUME: <sysgen>
```

```
SYSTEM NAME: <system>
```

```
UTILITY PROGRAM FILE: <util file>
```

```
IPL FILE NAME: <ipl file>
```

```
COMMAND PROCEDURE DIRECTORY: <cmdlib>
```

```
DOCUMENTATION PRINT DEVICE: <printer>
```

where <directory> is the directory containing the .SPCL117 directory, <volume> is the name of the volume or disk on which to apply these updates, <sysgen> is the name of the volume or disk that contains the sysgen data files, <system> is the name of the

operating system to be updated with the new patches, <util file> is the name of the utility file to be updated with new patches and utilities, <ipl file> is the name of the system loader file to be updated with the new patches, <cmdlib> is the library where command procedures should be stored or modified as a result of these updates and <printer> is the device name of the printer where you want the documentation printed or NONE if you do not want any printing done. (Consult the SCI command procedure, PGS, for further explanation.) Synonyms required by the installation batch stream will be assigned by the INSTALL command.

After the batch stream has completed without error, edit the system initialization batch stream in .S\$ISBTCH and add the command, PDH, to place the protect disk heads task into execution after the next time you boot your system.

5.2 DNOS OPERATING SYSTEM 1.3.0 PATCHES

The patch files described below will be automatically installed in the correct locations if the special update section (.SPCL117) is installed. This is the preferred method as it reduces the chance of errors.

The patch files for the DNOS 1.3.0 operating system are ".KERNEL", ".KERNELFE", ".UTILITY" and ".UTILFE". Both the KERNEL and UTILITY patches from this update should be applied.

To apply patches to the DNOS operating system, the user must copy the kernel, kernelfe, utility, and utilfe patch files to the location of the linkable parts directory. In order for the PGS command to work properly, the patch files are usually placed in the ".S\$OSLINK" directory under the pathnames ".S\$OSLINK.PATCH.KERNEL", ".S\$OSLINK.PATCH.KERNELFE", ".S\$OSLINK.PATCH.UTILFE" and ".S\$OSLINK.PATCH.UTILITY". To perform the patching of the system use the Patch Generated System (PGS) command. Details on this and other SCI commands can be found in the DNOS System Command Interpreter SCI Reference Manual.

If security is in use, be sure to log on with a user ID that is in the security managers access group. Failure to do so could result in some patches not being applied due to security violations. For more information on security, refer to the DNOS Security Manager's Guide.

The value for "\$CMDS" is usually ".S\$CMDS.S\$SYSTEM.S\$\$CMDS" for the major commands directory and the history commands.

The following instructions may be used to apply the KERNEL and UTILITY patches received in this update:

```

*-----*
* *** PATCH FILE  DNOS 1.3.00  KERNEL  1.3.00  LAST UPDATE 08/05/88*
*-----*
*      INSTRUCTIONS:
*      THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY
*      INVOKING THE "PGS" COMMAND PROCEDURE OR BY USING AN XB
*      COMMAND. THE USER SHOULD COPY THIS FILE TO THE LOCATION
*      OF THE S$OSLINK DIRECTORY UNDER THE PATHNAME:
*      <VOLNAME>.S$OSLINK.PATCH.KERNEL.

```

```

*
* FRONT END PATCHES:
*
* THE KERNEL FRONT END PATCHES WILL BE APPLIED AUTOMATICALLY
* BY THIS BATCH FILE IF THEY HAVE NOT BEEN PREVIOUSLY APPLIED
* ERROR FREE. OTHERWISE, THE FRONT END PATCHES WILL NOT APPLY
* UNLESS FORCED. IN ORDER TO FORCE THEM TO APPLY, ASSIGN THE
* SYNONYM 'KERNELFE' TO THE VALUE OF 'FORCE':
* .SYN KERNELFE=FORCE
*
*=====
* NOTE: PATCH 4168 MUST BE THE FIRST PATCH IN THE PATCH FILE *
* BECAUSE THE REST OF THE PATCH FILE DEPENDS ON IT BEING *
* APPLIED FIRST! *
*=====
* WARNING: *** DO NOT APPLY P3199 ***
* THIS PATCH WAS SOURCE CORRECTED IN 1.3.0. IF YOU APPLY
* THE OPTIONAL PATCH 3199 (DNOS 1.2.0 AND 1.2.1 SECURITY
* SYSTEM PATCH) IN 1.3.0, ALL MODIFY FILE NAME SVC
* REQUEST RESULT IN SECURITY VIOLATION - SVC 0135 OR
* SVC 0136 ERRORS. SCI COMMANDS, MFN (MODIFY FILE NAME,
* QE (QUIT EDIT) WITH REPLACE=YES, AND CC (COPY
* CONCATENATE) ISSUE THIS SVC ERROR ALSO.
* NOTE: P3937 REQUIRES THAT THE USER PERFORM AN "ALGS" AFTER THE
* FIRST APPLICATION OF THIS PATCH. TO GET THE BENEFITS OF
* PATCH 3937, YOU MUST PERFORM ALGS AND PGS AGAIN. THIS
* IS A SPEED UP PATCH RATHER THAN A PROBLEM FIX. IT IS
* NOT REQUIRED THAT YOU ALGS IMMEDIATELY.
* OPTIONAL PATCHES:
* P4047: THIS IS AN OPTIONAL PATCH TO BE USED WITH
* 3270 ICS 1.2 PATCH NUMBER 4079. THE SYNONYM "NBLNK"
* MUST BE SET TO "YES" BEFORE DOING THE ALGS AND PGS,
* OR EXECUTION VIA XB (EXECUTE BATCH).
* P4102: THIS IS AN OPTIONAL PATCH. THE SYNONYM
* "BKOPT" MUST BE SET TO "YES" BEFORE DOING
* THE ALGS AND PGS, OR EXECUTION VIA XB
* (EXECUTE BATCH). THIS PATCH FIXES THE PROBLEM
* OF RUNNING 1200 BAUD WITHOUT BLANK OPTIMIZATION
* ON THE 931 WHICH WILL PAINT THE SCREEN VERY SLOWLY.
* THIS PATCH CAUSES THE CODE TO ALWAYS BE SENT
* THROUGH THE BLANK OPTIMIZATION ROUTINE.
*
* YOU MUST ASSIGN THE FOLLOWING SYNONYMS BEFORE RUNNING THIS
* BATCH STREAM:
*
* $OT - VOLUME NAME OF DISK TO BE PATCHED
* TEMP - A FILE UNIQUE TO THE USER, SUCH AS .TEMP@ME
* IF NOT ASSIGNED, .TEMP@ME WILL BE USED
* $CSNAM - NAME OF SYSTEM TO BE PATCHED
*

```

* YOU MUST ASSIGN THE FOLLOWING SYNONYMS IF YOU HAVE MOVED SCI
* COMMAND PROCEDURES INTO COMMAND DIRECTORIES OTHER THAN THOSE
* SUPPLIED WITH YOUR SOFTWARE:

* \$CMDS - THE MAJOR COMMANDS DIRECTORY(IES) AND THE HISTORY COMMANDS

* *** PATCH FILE DNDS 1.3.00 UTILITY 1.3.00 LAST UPDATE 08/05/88*

* INSTRUCTIONS:

* THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY
* USING THE "PGS" COMMAND PROCEDURE OR BY USING AN XB
* COMMAND. THE USER SHOULD COPY THIS FILE TO THE LOCATION
* OF THE S\$OSLINK DIRECTORY UNDER THE PATHNAME:
* <VOLNAME>.S\$OSLINK.PATCH.UTILITY.
*

* FRONT END PATCHES:

* THE UTILITY FRONT END PATCHES WILL BE APPLIED AUTOMATICALLY
* BY THIS BATCH FILE IF THEY HAVE NOT BEEN PREVIOUSLY APPLIED
* ERROR FREE. OTHERWISE, THE FRONT END PATCHES WILL NOT APPLY
* UNLESS FORCED. IN ORDER TO FORCE THEM TO APPLY, ASSIGN THE
* SYNONYM 'UTILFE' TO THE VALUE OF 'FORCE':
* .SYN UTILFE=FORCE
*

* OPTIONAL PATCHES:

* P3934: THIS IS AN OPTIONAL PATCH WHICH SHOULD BE APPLIED ONLY
* IF THE FILE TRANSFER UTILITY IS USED WITH THE 931
* EMULATOR RELEASE 1.0
* THE FILE TRANSFER UTILITY TASK ISSUES A READ DEVICE
* STATUS TEST TO VERIFY WHAT VERSION OF EM931 IS RUNNING
* IN THE PC. ONLY EM931 RELEASE 2.0 OR LATER CAN HANDLE
* THIS TEST. THIS READ DEVICE STATUS TEST SHOULD NOT BE
* SENT TO EM931 1.0.
* P3935: THIS IS AN OPTIONAL PATCH TO BE USED ONLY WHEN RUNNING
* THE FILE TRANSFER UTILITY WITH THE EM931 2.1 RELEASE.
* DO NOT APPLY THIS PATCH IF YOU ARE RUNNING RELEASES
* EARLIER THAN EM931 2.1. THIS PATCH USES A FEATURE IN
* EM931 2.1 WHEREBY A TIMEOUT OF FILE TRANSFERS ON THE
* PC SIDE CAN BE ADJUSTED. IF THIS PATCH IS ENABLED,
* THEN PATCH 4007 MUST ALSO BE ENABLED.
* P4007: PATCH 3935 SENT DESCRIPTOR INFORMATION IN INCORRECT
* ORDER.
* THIS PATCH MODIFIES PATCH 3935 AND SHOULD BE ENABLED
* ONLY IF PATCH 3935 IS ENABLED.
*

* YOU MUST ASSIGN THE FOLLOWING SYNONYMS BEFORE RUNNING THIS
* BATCH STREAM:
*
* \$DT - VOLUME NAME OF DISK TO BE PATCHED
* \$CSNAM - NAME OF SYSTEM TO BE PATCHED
*
* YOU MUST ASSIGN THE FOLLOWING SYNONYM IF YOU HAVE THE SYSTEM
* UTILITY PROGRAM FILE NAMED SOMETHING OTHER THAN .S\$UTIL
*
* S\$UTIL - UTILITY PROGRAM FILE BEING PATCHED
*
* YOU MUST ASSIGN THE FOLLOWING SYNONYM IF YOU HAVE THE IPL FILE
* NAMED SOMETHING OTHER THAN .S\$IPL
*
* S\$IPL - NAME OF IPL FILE BEING PATCHED
*
* YOU MUST ASSIGN THE FOLLOWING SYNONYMS IF YOU HAVE MOVED SCI
* COMMAND PROCEDURES INTO COMMAND DIRECTORIES OTHER THAN THOSE
* SUPPLIED WITH YOUR SOFTWARE:
*
* \$CMDS - THE MAJOR COMMANDS DIRECTORY(IES) AND THE HISTORY COMMANDS
* CMDLIB - COMMAND DIRECTORY TO BE MODIFIED BY .PROC PATCHES

5.3 DNOS BASIC 4.1.0 PATCHES

The patch file for the DNOS Basic patches is ".BASIC41". The following instructions can be used for applying the patches to DNOS Basic via the Execute Batch (XB) command:

The value for "\$CMDS" is usually ".S\$CMDS..S\$SYSTEM.S\$\$CMDS" for the major commands directory and the history commands.

```
*-----*
* *** PATCH FILE  DNOS 1.3.0 BASIC          4.1.0 LAST UPDATE 08/07/85 *
*-----*
*      INSTRUCTIONS:
*
* YOU MUST ASSIGN THE FOLLOWING SYNONYM BEFORE RUNNING THIS
* BATCH STREAM:
*
* DSC      - VOLUME NAME OF THE DISK ON WHICH BASIC IS INSTALLED.
*
* IT IS BEST TO APPLY PATCHES FROM A USER ID WITH NO USER SYNONYMS.
*
* YOU MUST ASSIGN THE FOLLOWING SYNONYM IF YOU HAVE MOVED SCI
* COMMAND PROCEDURES INTO COMMAND DIRECTORIES OTHER THAN THOSE
* SUPPLIED WITH YOUR SOFTWARE:
*
* $CMDS    - THE MAJOR COMMANDS DIRECTORY(IES) AND THE HISTORY COMMANDS
*
* THE FOLLOWING PATCHES ARE OPTIONAL:
*   #3578
*-----*
```

5.4 DNOS COBOL 3.5.0 PATCHES

The patch file for the DNOS COBOL patches is ".CBL350". The following instructions can be used for applying the patches to DNOS COBOL via the Execute Batch (XB) command:

```
*-----*
* *** PATCH FILE  DNOS          COBOL  3.5.0          LAST UPDATE 10/21/85 *
*-----*
*   ASSIGN THE FOLLOWING SYNONYMS :                                     *
*   TO PATCH THE SYSTEM FILE .S$LANG, ASSIGN THE SYNONYMS :         *
*   "VOLBLD" - THE VOLUME NAME OF THE DISK THAT CONTAINS           *
*               THE SYSTEM FILES (.S$LANG)".                        *
*   "VOLBLD2" - THE NAME OF THE DIRECTORY, OR DISK, THAT           *
*               CONTAINS THE DIRECTORY (.S$SYSLIB).                *
*   TO PATCH A USER PROGRAM FILE, ASSIGN THE SYNONYMS :           *
*   "VOLBLD" - ""                                                  *
*   "VOLBLD2" - ""                                                  *
*   "$UPF" - THE NAME OF THE USER PROGRAM FILE                    *
*   "$UPN" - THE NAME OF THE DNOS USER PROCEDURE                  *
*   "$UPA" - THE STARTING ADDRESS OF THE RUNTIME PROCEDURE.      *
*-----*
```

5.5 DNOS COMMON COMMUNICATIONS PARTS 1.3.0 PATCHES

The patch files for DNOS COMMON COMMUNICATIONS PARTS patches are ".DNCMO.DNFCMON", ".DNCMO.DNFCOMA", ".DNCMO.DNFCSWS", ".DNCMO.DNPPCOMM", and ".DNCMO.UTLPAT". The following instructions may be used to apply the DNOS COMMON COMMUNICATIONS PARTS patches.

```

-----*
* *** PATCH FILE DNOS 1.3.0 DNFCMON 1.3.0 LAST UPDATE 10/23/87 *
-----*
* INSTALLATION PATHNAME: .S$OSLINK.DNCMO.DCOMM.P.DNFCMON
* ABSTRACT:
* THESE ARE THE PATCHES FOR THE COMMUNICATION COMMON
* PARTS, CSUPSY, CSUPIN, QUEUES, & THE ISRS, WHICH HAVE A
* COPY IN EACH PROTOCOL'S DSR OVERLAY. THE PROTOCOL'S
* DSR PARTIAL LINKMAP AND THE SYSTEM PROGRAM FILE
* ARE CHECKED TO BE SURE THEY ARE AVAILABLE.
* THE ABOVE MENTIONED LINKMAP IS EXPECTED TO RESIDE
* ON THE TARGET SYSTEM ($OT) ASSIGNED DURING EXECUTION
* OF THE PROC 'XSGU' (EXECUTE SYSTEM GENERATION UTILITY).
* THIS PATCH FILE IS APPLIED USING THE 'PGS' PROC (PATCH
* GENERATED SYSTEM).
* USE OF THE 'PGS' PROC IS DESCRIBED IN THE DNOS SYSTEM
* GENERATION REFERENCE MANUAL (PART NUMBER 2270511-9701).
* OPTIONAL PATCHES:
* P4187: IF YOU ARE RUNNING A BUSINESS SYSTEM 300
* AT 9600 BPS LEASED LINE, INSTALL THIS PATCH.
* IT ENABLES AUTO-DIAL SUPPORTED ALBISR TO RUN
* AT 9600 BPS LEASED LINE MORE EFFICIENTLY.
* THE FOLLOWING SYNONYMS ARE USED BY THIS PATCH STREAM AND ARE
* ASSIGNED BY THE "PGS" PROCESS:
* $OT - TARGET SYSTEM DISK/VOLUME NAME
* $CSNAM - SYSTEM NAME OF TARGET DNOS SYSTEM TO BE PATCHED
* $PROT - COMMUNICATIONS DSR (PROTOCOL) TO BE PATCHED
* $CMDS - ".S$CMDS,.S$SYSTEM.S$$CMDS"
-----*
* *** SPECIAL PROCESSING *** *
* IF THIS FILE IS NOT CURRENTLY ON THE INSTALLATION MEDIA *
* OR THIS FILE IS TO BE USED AS AN UPDATE, COPY THIS FILE *
* USING 'CC'(COPY/CONCATENATE) REPLACING THE CURRENT FILENAME *
* '.S$OSLINK.DNCMO.DCOMM.P.DNFCMON' *
-----*

```

```

-----*
* *** PATCH FILE  DNOS 1.3.0  DNPCOMA 1.3.0  LAST UPDATE 02/08/85  *
-----*
* INSTALLATION PATHNAME:  .S$OSLINK.DNCOMO.DCOMA.P.DNPCOMA
* ABSTRACT:
*   THIS IS THE DUMMY PATCH FILE FOR THE COMMUNICATIONS DSR
*   OVERLAY DSRCOMA. THIS OVERLAY IS COMPOSED ENTIRELY OF
*   COMMON DSR PIECES AND IS PATCHED BY THE DNPCOMN PATCH
*   FILE. THE COMA PARTIAL LINKMAP, DMAPCOMA, AND THE SYSTEM
*   PROGRAM FILE ARE CHECKED TO BE SURE THEY ARE AVAILABLE.
*
*   THE ABOVE MENTIONED LINKMAP IS EXPECTED TO RESIDE
*   ON THE TARGET SYSTEM ($OT) ASSIGNED DURING EXECUTION
*   OF THE PROC 'XSGU' (EXECUTE SYSTEM GENERATION UTILITY).
*   THIS PATCH FILE IS APPLIED USING THE 'PGS' PROC (PATCH
*   GENERATED SYSTEM).
*   USE OF THE 'PGS' PROC IS DESCRIBED IN THE DNOS SYSTEM
*   GENERATION REFERENCE MANUAL (PART NUMBER 2270511-9701).
*
* THE FOLLOWING SYNONYMS ARE USED BY THIS PATCH STREAM AND ARE
* ASSIGNED BY THE "PGS" PROCESS:
*   $OT      - TARGET SYSTEM DISK/VOLUME NAME
*   $CSNAM   - SYSTEM NAME OF TARGET DNOS SYSTEM TO BE PATCHED
*   $CMDS    - ".S$CMDS,.S$SYSTEM.S$$CMDS"
-----*
* *** SPECIAL PROCESSING ***
* IF THIS FILE IS NOT CURRENTLY ON THE INSTALLATION MEDIA
* OR THIS FILE IS TO BE USED AS AN UPDATE, COPY THIS FILE
* USING 'CC'(COPY/CONCATENATE) REPLACING THE CURRENT FILENAME
* '.S$OSLINK.DNCOMO.DCOMA.P.DNPCOMA'
-----*

```

```

-----*
* *** PATCH FILE  DNOS 1.3.0  DNPCSW 1.3.0  LAST UPDATE 02/08/85  *
-----*
* INSTALLATION PATHNAME:  .S$OSLINK.DNCOMO.DCOMM.P.DNPCSW
* ABSTRACT:
*   THESE ARE THE PATCHES FOR THE COMMUNICATION SOFTWARE
*   LEVEL SCHEDULER.
*   THE SOFTWARE LEVEL SCHEDULER PARTIAL LINKMAP
*   (CMAPCSWS) AND THE SYSTEM PROGRAM FILE
*   ARE CHECKED TO BE SURE THEY ARE AVAILABLE.
*   THE ABOVE MENTIONED LINKMAPS ARE EXPECTED
*   TO RESIDE ON THE '.S$SGU$.SYSNAME' DIRECTORY ASSIGNED
*   DURING EXECUTION OF THE PROC 'XSGU' (EXECUTE SYSTEM
*   GENERATION UTILITY).
*   THIS PATCH FILE IS APPLIED BY USING THE 'PGS' PROC (PATCH
*   GENERATED SYSTEM).

```

```

*   USE OF THE 'PGS' PROC IS DESCRIBED IN THE DNOS SYSTEM
*   GENERATION REFERENCE MANUAL (PART NUMBER 2270511-9701).
*
*   THE FOLLOWING SYNONYMS ARE USED BY THIS PATCH STREAM AND ARE
*   ASSIGNED BY THE "PGS" PROCESS:
*   $DT      - TARGET SYSTEM DISK/VOLUME NAME
*   $CSNAM   - SYSTEM NAME OF TARGET DNOS SYSTEM TO BE PATCHED
*   $CMDS    - ".S$CMDS,.S$SYSTEM.S$CMDS"

```

```

*-----*
*   *** SPECIAL PROCESSING ***
*   IF THIS FILE IS NOT CURRENTLY ON THE INSTALLATION MEDIA
*   OR THIS FILE IS TO BE USED AS AN UPDATE, COPY THIS FILE
*   USING 'CC'(COPY/CONCATENATE) REPLACING THE CURRENT FILENAME
*   '.S$OSLINK.DNCMO.DCOMM.P.DNPCSWS'
*-----*

```

```

*-----*
*   *** PATCH FILE DNOS 1.3.0  DNPPCOMM 1.3.0  LAST UPDATE 02/08/85 *
*-----*
*   INSTALLATION PATHNAME:  .S$OSLINK.DNCMO.DCOMM.P.DNPPCOMM
*   ABSTRACT:  THIS PATCH FILE PATCHES THE COMMON COMMUNICATIONS
*              UTILITIES GENERATION PROCEDURES BEFORE THE INSTALLATION
*              PROCESS (IUT) BEGINS.
*              THE COMMAND LIBRARY THAT IS PATCHED RESIDES ON THE DNOS
*              LINKABLE PARTS DIRECTORY UNDER THE PATHNAME,
*              .S$OSLINK.DNCMO.S$CCMDS. $CVN REPRESENTS THIS DIRECTORY.
*
*              THIS PATCH FILE IS APPLIED USING THE "IUC" PROC, WHICH
*              IS INVOKED DURING THE INITIAL PHASE OF THE DNOS COMM
*              UTILITIES INSTALLATION.
*-----*

```

```

*   *** SPECIAL PROCESSING ***
*   IF THIS FILE IS NOT CURRENTLY ON THE INSTALLATION MEDIA
*   OR THIS FILE IS TO BE USED AS AN UPDATE, COPY THIS FILE
*   USING 'CC'(COPY/CONCATENATE) REPLACING THE CURRENT FILENAME
*   '.S$OSLINK.DNCMO.DCOMM.P.DNPPCOMM'
*-----*

```

```

*-----*
*   *** PATCH FILE DNOS 1.3.0  UTLPAT 1.3.0  LAST UPDATE 10/10/85*
*-----*
*   INSTALLATION PATHNAME:  .S$OSLINK.DNCMO.DUTIL.P.UTLPAT
*   ABSTRACT:
*   THESE ARE THE PATCHES FOR THE DNOS DOWNLOAD
*   UTILITIES. THE UTILITIES ARE INSTALLED USING THE
*   'IUT' PROC ONTO THE .S$COMM.S$COMMON PROGRAM FILE.

```

* THE PATCHES ARE APPLIED USING THE 'PUT' PROC AFTER
* THE UTILITIES HAVE BEEN INSTALLED. THESE PROCS ARE
* FULLY DESCRIBED IN EACH COMMUNICATIONS PACKAGE OBJECT
* INSTALLATION GUIDE.
*

* THE FOLLOWING SYNONYMS ARE USED BY THIS PATCH STREAM AND ARE
* ASSIGNED BY THE "PUT" PROCESS:

* \$CMDS - ".S\$CMDS,.S\$SYSTEM.S\$\$CMDS"
* \$\$DSC\$ - TARGET DISK CONTAINING .S\$COMM.S\$COMMON

* *** SPECIAL PROCESSING *** *
* IF THIS FILE IS NOT CURRENTLY ON THE INSTALLATION MEDIA *
* OR THIS FILE IS TO BE USED AS AN UPDATE, COPY THIS FILE *
* USING 'CC'(COPY/CONCATENATE) REPLACING THE CURRENT FILENAME *
* '.S\$OSLINK.DNCMD.DUTIL.P.UTLPAT' *

5.6 DNOS 3780/2780 EMULATOR 1.2.0 PATCHES

The patch files for DNOS 3780/2780 patches are ".DN378012.DNP3780", ".DN378012.DNPP3780", and ".DN378012.DNTP3780". The following instructions are for the DNOS 3780/2780 Emulator patch application.

```

-----*
* *** PATCH FILE DNOS 1.3.0 DSR 3780 1.2.0 LAST UPDATE 06/16/88*
-----*
* INSTALLATION PATHNAME: .S$OSLINK.DNCOM.D3780.P.DNP3780
* ABSTRACT:
* THESE ARE THE PATCHES FOR THE 3780/2780 DSR PARTS IN
* DSR3780. ANOTHER PATCH FILE PATCHES COMMON PARTS IN THE
* SAME OVERLAY. THE 3780 PARTIAL LINKMAP, DMAP3780, AND THE
* SYSTEM PROGRAM FILE ARE CHECKED TO BE SURE THEY ARE AVAILABLE.
* THE LINKMAP IS EXPECTED TO RESIDE ON THE TARGET SYSTEM
* ($OT) ASSIGNED WHEN EXECUTING THE PROC 'XSGU' (EXECUTE SYSTEM
* GENERATION UTILITY).
* THIS PATCH FILE IS APPLIED USING THE PROC 'PGS' (PATCH
* GENERATED SYSTEM).
* USE OF THE 'PGS' PROC IS DESCRIBED IN THE DNOS SYSTEM
* GENERATION REFERENCE MANUAL (PART NUMBER 2270511-9701).
* OPTIONAL PATCHES:
* P4105 COUNT "ENQ", "NAK" SENT IN RESPONSE TO A "WACK", "TTD"
* AND CHECK THE COUNT TO SEE IF THRESHOLDS ARE EXCEEDED.
* THE FOLLOWING SYNONYMS ARE USED BY THIS PATCH STREAM AND ARE
* ASSIGNED BY THE "PGS" PROCESS:
* $OT - TARGET SYSTEM DISK/VOLUME NAME
* $CSNAM - SYSTEM NAME OF TARGET DNOS SYSTEM TO BE PATCHED
* $PROT - COMMUNICATIONS DSR (PROTOCOL) TO BE PATCHED
* $CMDS - ".S$CMDS,.S$SYSTEM.S$CMDS"
-----*

```

```

-----*
* *** PATCH FILE DNOS 1.3.0 DNTP3780 1.2.0 LAST UPDATE 06/16/88*
-----*
* INSTALLATION PATHNAME: DNCOMOBJ.PATCH.DNTP3780
* ABSTRACT:
* THESE ARE THE PATCHES FOR THE 3780/2780 EMULATOR TASKS. THE
* TASK LINKMAP(S) (TASK3780/TASK2780) AND THE COMM PROGRAM
* FILE (.S$COMMDN) ARE CHECKED TO BE SURE THEY ARE AVAILABLE.
* THE LINKMAP(S) ARE ASSUMED TO RESIDE ON THE LISTING DIRECTORY
* DESCRIBED WHEN BUILDING THE TASK(S) USING THE PROC 'BET'

```

```

*      (BUILD EMULATOR TASKS).
*      THE COMM PROGRAM FILE IS ASSUMED TO BE ON DS01 IF THE
*      SYNONYM $$DSC$ IS NOT ASSIGNED.
*      THIS PATCH FILE IS APPLIED AT TASK INSTALLATION OR BY
*      USING THE 'PT3780' PROC (PATCH 3780/2780 COMMUNICATIONS
*      TASKS) LOCATED ON THE EMULATOR OBJECT INSTALLATION DISK,
*      DNCOMOBJ.
*      USE OF THE 'PT3780' PROC IS DESCRIBED IN THE 'DNOS 3780/2780
*      EMULATOR OBJECT INSTALLATION DOCUMENT' (PART NUMBER 2270545-
*      9701).
*      OPTIONAL PATCHES:
*      P1149  EMULATOR IGNORES RECEIVED LF, NL AND FF
*      P1241  IDLE LINE ERROR MESSAGE SEEN 3780
*      P1242  IDLE LINE ERROR MESSAGE SEEN 2780
*      P1252  UPDATE GERMANY/AUSTRIA TRANSLATION TABLE
*      P1256  UPDATE UNITED KINGDOM TRANSLATION TABLE
*      P1573  DECREASE CONNECT TIME WHEN USING IPC
*      P1577  TREAT RVI AS AN ERROR 2780
*      P1578  TREAT RVI AS AN ERROR 3780
*      P1760  RECOGNIZE THE RS CHARACTER
*      THE FOLLOWING SYNONYMS ARE USED BY THIS PATCH STREAM AND ARE
*      ASSIGNED BY THE INSTALLATION PROCEDURE OR THE "PT3780" PROCESS:
*      $$DSC$ - THE COMM PROGRAM FILE DISK NAME
*      $CMDS  - ".S$CMDS,.S$SYSTEM.S$$CMDS"
*      CMDLIB - THE COMMAND DIRECTORY TO BE MODIFIED BY .PROC PATCHES
*      $C378  - THE SYNONYM SET IF 3780 TASK IS TO BE PATCHED
*      $C278  - THE SYNONYM SET IF 2780 TASK IS TO BE PATCHED
*      $CLST  - THE DIRECTORY NAME WHERE THE LINK MAPS RESIDE
*      $PROT  - THE SYNONYM SET FOR WHICH EMULATOR IS TO BE PATCHED
*-----*
*-----*
* *** PATCH FILE  DNOS 1.3.0  DNPP3780 1.2.0   LAST UPDATE  03/04/85*
*-----*
* INSTALLATION PATHNAME:  DNCOMOBJ.DNCMO.D3780.P.DNPP3780
* ABSTRACT:  THIS PATCH FILE PATCHES THE 3780 BUILD (DSR AND TASK)
*            PROCEDURES BEFORE EITHER BUILD PROCESS BEGINS.
*            THE DISK PATCHED IS THE OBJECT INSTALLATION DISK.
*            $CVN REPRESENTS THE DISK TO BE PATCHED.
*
*            THIS PATCH FILE IS LOCATED ON THE DNOS 3780/2780
*            EMULATOR OBJECT DISK/DIRECTORY:
*                DNCOMOBJ.DNCMO.D3780.P.DNPP3780
*
*            THIS PATCH FILE IS APPLIED USING THE "ICC" PROC, WHICH
*            IS INVOKED DURING THE INITIAL PHASE OF A DNOS 3780/2780
*            TASK BUILD.
*-----*

```

5.7 DNOS DNCS 1.3.0 PATCHES

The patch files for DNCS 1.3.0 are ".DNCS13.DNPCMNS", ".DNCS13.DNPLAP", ".DNCS13.DNPSDLC", ".DNCS13.PAT914", ".DNCS13.PATEMU", ".DNCS13.PATGEN", ".DNCS13.PATNUC", ".DNCS13.PATRFT", ".DNCS13.PUPSC", ".DNCS13.PURFT", and ".DNCS13.PATBLU".

Before applying these patches, ensure that the synonym DCFWD is assigned to the DNCS Nucleus object directory. In addition, depending on your configuration, ensure that the following synonyms are assigned:

DCEMO---DNCS SNA Emulator object directory
 DCRFTO---DNCS X.25 RFT object directory
 DC9140---DNCS 914A Terminal Support object directory
 DCBLU---DNCS SNA Batch object directory

The following instructions along with the above noted synonym assignments should be used to apply the patches:

```

*-----*
* *** PATCH FILE   DNCS 1.3.0 DNPCMNS 1.3.0   LAST UPDATE 10/29/84*
*-----*
* INSTRUCTIONS                                                    *
* THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY INVOKING *
* THE 'PGS' COMMAND PROCEDURE LOCATED ON THE DNOS COMMAND LIBRARY *
* .S$CMDS. THIS PATCH BATCH STREAM MUST BE COPIED TO THE PATHNAME *
* @$OT.S$OSLINK.DNCS.DNCS.P.DNPCMNS BEFORE INVOKING THE 'PGS' *
* COMMAND. USE OF THE 'PGS' COMMAND IS DESCRIBED IN THE DNOS SYSTEM *
* GENERATION REFERENCE MANUAL (PART NUMBER 2270511-9701).      *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* THE FOLLOWING SYNONYMS ARE ASSIGNED AUTOMATICALLY BY 'PGS':   *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* $CMDS - THE MAJOR COMMANDS DIRECTORY AND THE HISTORY COMMANDS *
* CMDLIB - THE COMMANDS DIRECTORY TO BE MODIFIED BY .PROC PATCHES *
* $OT - TARGET SYSTEM DISK/VOLUME *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* MORE INFORMATION ABOUT THIS PATCH FILE FOLLOWS:                *
* THIS IS THE PATCH FILE FOR THE COMMUNICATIONS DSR OVERLAY *
* DSRCMNS. THIS OVERLAY IS COMPOSED OF BOTH COMMON DSR PARTS *
* WHICH ARE PATCHED BY THE DNPCMON PATCH FILE AND CMNS PARTS *
* WHICH ARE PATCHED BY THIS PATCH STREAM. THE CMNS PARTIAL *
* LINKMAP, DMAPCMNS, AND THE SYSTEM PROGRAM FILE ARE CHECKED *
* TO BE SURE THEY ARE AVAILABLE. *
*-----*

```

```
*-----*
* *** PATCH FILE   DNCS 1.3.0 DNPLAP 1.3.0       LAST UPDATE 07/11/86*
*-----*
* INSTRUCTIONS                                         *
* THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY INVOKING *
* THE 'PGS' COMMAND PROCEDURE LOCATED ON THE DNOS COMMAND LIBRARY *
* .S$CMDS. THIS PATCH BATCH STREAM MUST BE COPIED TO THE PATHNAME *
* @$OT.S$OSLINK.DNCSMO.DLAP.P.DNPLAP BEFORE INVOKING THE 'PGS' *
* COMMAND. USE OF THE 'PGS' COMMAND IS DESCRIBED IN THE DNOS SYSTEM *
* GENERATION REFERENCE MANUAL (PART NUMBER 2270511-9701). *
* * * * *
* THE FOLLOWING SYNONYMS ARE ASSIGNED AUTOMATICALLY BY 'PGS': *
* * * * *
* $CMDS - THE MAJOR COMMANDS DIRECTORY AND THE HISTORY COMMANDS *
* CMDLIB - THE COMMANDS DIRECTORY TO BE MODIFIED BY .PROC PATCHES *
* $OT -   TARGET SYSTEM DISK/VOLUME *
* * * * *
* MORE INFORMATION ABOUT THIS PATCH FILE FOLLOWS: *
* THIS IS THE PATCH FILE FOR THE COMMUNICATIONS DSR OVERLAY *
* DSRLAP. THIS OVERLAY IS COMPOSED OF BOTH COMMON DSR PARTS *
* WHICH ARE PATCHED BY THE DNPCMON PATCH FILE AND LAP PARTS *
* WHICH ARE PATCHED BY THIS PATCH STREAM. THE LAP PARTIAL *
* LINKMAP, DMAPLAP, AND THE SYSTEM PROGRAM FILE ARE CHECKED *
* TO BE SURE THEY ARE AVAILABLE. *
*-----*
```

```
*-----*
* *** PATCH FILE   DNCS 1.3.0 DNPSDLC 1.3.0     LAST UPDATE 06/04/87*
*-----*
* INSTRUCTIONS                                         *
* THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY INVOKING *
* THE 'PGS' COMMAND PROCEDURE LOCATED ON THE DNOS COMMAND LIBRARY *
* .S$CMDS. THIS PATCH BATCH STREAM MUST BE COPIED TO THE PATHNAME *
* @$OT.S$OSLINK.DNCSMO.DSDLC.P.DNPSDLC BEFORE INVOKING THE 'PGS' *
* COMMAND. USE OF THE 'PGS' COMMAND IS DESCRIBED IN THE DNOS SYSTEM *
* GENERATION REFERENCE MANUAL (PART NUMBER 2270511-9701). *
* * * * *
* THE FOLLOWING SYNONYMS ARE ASSIGNED AUTOMATICALLY BY 'PGS': *
* * * * *
* $CMDS - THE MAJOR COMMANDS DIRECTORY AND THE HISTORY COMMANDS *
* CMDLIB - THE COMMANDS DIRECTORY TO BE MODIFIED BY .PROC PATCHES *
* $OT -   TARGET SYSTEM DISK/VOLUME *
* * * * *
* MORE INFORMATION ABOUT THIS PATCH FILE FOLLOWS: *
* THIS IS THE PATCH FILE FOR THE COMMUNICATIONS DSR OVERLAY *
* DSRSDLC. THIS OVERLAY IS COMPOSED OF BOTH COMMON DSR PARTS *
* WHICH ARE PATCHED BY THE DNPCMON PATCH FILE AND SDLC PARTS *
* WHICH ARE PATCHED BY THIS PATCH STREAM. THE SDLC PARTIAL *
*-----*
```



```

*-----*
* *** PATCH FILE  DNOS 1.3.0 DNCS SNA/EMU 1.3.0 LAST UPDATE 05/19/88*
*-----*
* INSTRUCTIONS:
* THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY INVOKING
* THE 'PIDC' COMMAND PROCEDURE LOCATED ON THE DNCS NUCLEUS
* OBJECT INSTALLATION DISK, DCFWO.  THE 'PIDC' COMMAND FILE IS
* ACCESSED BY ENTERING .USE DCFWO.RELEASE.PROC,.$CMDS. THIS PATCH
* BATCH STREAM MUST BE COPIED TO THE PATHNAME DCFWO.PATCH.PATEMU
* BEFORE INVOKING THE 'PIDC' COMMAND.  USE OF THE 'PIDC' COMMAND
* IS DESCRIBED IN THE 'DNCS NUCLEUS OBJECT INSTALLATION GUIDE',
* PART NO. 2302660-9701.
*
* MORE INFORMATION CONCERNING THIS PATCH FILE FOLLOWS:
* LOCATION : @$DND.PATCH.PATEMU
* LISTING  : @CUSTOM.LIST.PATEMU
* PURPOSE  : APPLY DNCS SNA EMULATOR PATCHES
* CALLED BY: @$DND.RELEASE.BAT.PIDC
*
* THE FOLLOWING SYNONYMS ARE ASSIGNED AUTOMATICALLY BY 'PIDC':
*
* $DND  - DNCS NUCLEUS DIRECTORY
* $DMD  - DNCS SNA EMULATOR DIRECTORY
* $D9D  - DNCS 914A DIRECTORY
* $DRD  - DNCS RFT/X25 DIRECTORY
* $DGD  - DNCS GENERATION DIRECTORY
* $CON  - CONFIGURATION NAME
* CUSTOM - DNCS CUSTOM DIRECTORY, @$DGD.$$DGU$.@$CON
* CMDLIB - DNCS COMMAND DIRECTORY, @$DGD.$$DGU$.@$CON.D$CMDS
* $CMDS - COMMAND FILE FOR 'BUD' AND 'EUD'
*
* THE DNCS PROGRAM FILES FOR PATCHING PURPOSES ARE:
* @CUSTOM.$$DNCS.PGMTASK---DNCS TASKS (NON-MEMORY RESIDENT)
* @CUSTOM.$$UTIL----DNCS MEMORY RESIDENT TASKS AND PROCEDURES
*
* THE FOLLOWING SYNONYM MUST BE USED TO DEFINE THE DIRECTORY WHICH
* CONTAINS THE CUSTOM LINKMAPS.  THE DEFAULT VALUE FOR THIS SYNONYM
* IS @CUSTOM.  HOWEVER, FOR IS&S INTERNAL USE, THE SYNONYM CAN BE
* MODIFIED TO POINT TO ANOTHER DIRECTORY AS REQUIRED.
*
* $CUS  - DNCS CUSTOM DIRECTORY (LINKMAPS ONLY)
*
* SNA/EMU TASK PATCHING IS CONFIGURATION DEPENDENT.  'PIDC' ASSIGNS
* THE VALUE 'YES' TO THE FOLLOWING SYNONYMS TO INDICATE WHETHER THE
* CORRESPONDING TASKS/PROCS ARE INSTALLED:
*
* EMU    -EM3287,EM3278,EM3284,EMKSR,EMPROC
* PSC    -PSCDEF,EMPSC,DSTART,PSTART
*
* OPTIONAL PATCHES:

```

```

* TO INSTALL OPTIONAL PATCHES, ASSIGN SEPARATE SYNONYMS FOR EACH
* DESIRED PATCH. UNIQUE SYNONYMS OF THE FORM $PXXXX, WHERE XXXX
* IS THE PATCH NUMBER, CONTROL OPTIONAL PATCH INSTALLATION AND MUST
* HAVE THE VALUE 'YES'. FOR EXAMPLE, TO INSTALL P3818, ASSIGN VALUE
* YES TO THE SYNONYM $P3818. ENSURE THAT LAST PATCH NUMBER IN THE
* EUD COMMAND CONTAINS THE HIGHEST PATCH NUMBER APPLIED.
*
* A LIST OF OPTIONAL PATCHES IN THIS PATCH FILE FOLLOWS:
* P3818 -- SWEDISH CHARACTER PATCH FOR INTERNATIONAL CHARACTER
* TRANSLATION TABLE MODIFICATION.
* P4015 -- EMKSR PATCH TO SUPPRESS CONVERSION OF GRAPHIC CHARACTERS
* TO BLANKS.
* P4118 -- TIME-OUT PATCH TO AUTOMATICALLY TERMINATE VDT2 SESSIONS
* WHICH ARE NOT USED FOR 15 MINUTES.
*-----*

```

```

*-----*
* *** PATCH FILE DNOS 1.3.0 DNCS GEN 1.3.0 LAST UPDATE 07/09/87*
*-----*

```

```

* INSTRUCTIONS:
* THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY INVOKING
* THE 'PDGU' COMMAND PROCEDURE LOCATED ON THE DNCS NUCLEUS
* OBJECT INSTALLATION DISK, DCFWO. THE 'PDGU' COMMAND FILE IS
* ACCESSED BY ENTERING .USE DCFWO.RELEASE.PROC,.S$CMDS. THIS PATCH
* BATCH STREAM MUST BE COPIED TO THE PATHNAME DCFWO.PATCH.PATGEN
* BEFORE INVOKING THE 'PDGU' COMMAND. USE OF THE 'PDGU' COMMAND
* IS DESCRIBED IN THE 'DNCS NUCLEUS OBJECT INSTALLATION GUIDE',
* PART NO. 2302660-9701.
*

```

```

* MORE INFORMATION CONCERNING THIS PATCH FILE FOLLOWS:

```

```

* LOCATION : @$DND.PATCH.PATGEN
* LISTING : @$DND.PATCH.LSTGEN
* PURPOSE : APPLY DNCSGEN UTILITY PATCHES
* CALLED BY: PDGU SCI PROC
*

```

```

* THE FOLLOWING SYNONYMS ARE ASSIGNED AUTOMATICALLY BY 'PDGU':

```

```

* $DND = DNCS NUCLEUS DIRECTORY
* $DOV = DNOS SYSTEM VOLUME
*

```

```

* THE DNCSGEN PROGRAM FILE IS AT @$DND.S$DCGEN.PROG
*

```

```

* OPTIONAL PATCHES:

```

```

* TO INSTALL OPTIONAL PATCHES, ASSIGN SEPARATE SYNONYMS FOR EACH
* DESIRED PATCH. UNIQUE SYNONYMS OF THE FORM $PXXXX, WHERE XXXX
* IS THE PATCH NUMBER, CONTROL OPTIONAL PATCH INSTALLATION AND MUST
* HAVE THE VALUE 'YES'. FOR EXAMPLE, TO INSTALL P4035, ASSIGN VALUE
* YES TO THE SYNONYM $P4035. ENSURE THAT LAST PATCH NUMBER IN THE

```



```

*   @CUSTOM.S$UTIL----DNCS MEMORY RESIDENT TASKS AND PROCEDURES   *
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
*   NUCLEUS TASK PATCHING IS CONFIGURATION DEPENDENT. 'PIDC' ASSIGNS *
*   THE VALUE 'YES' TO THE FOLLOWING SYNONYMS TO INDICATE WHETHER THE *
*   CORRESPONDING TASKS/PROCS ARE INSTALLED:   *   *   *   *   *   *
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
*   NUC      -DNCSCOMM, DNCSST, DNCSFDCT, DNCSCLK, DNCSCI, EMSCI,   *
*            DNCSSTOP, DNCSINIT, SVQHST, SVQSCI, SVQQUE, SVQMGR,   *
*            NUCPROC, CIMENU, NETPROC, SVQPROC   *   *   *   *   *
*   SDLC     -DLS DLC   *   *   *   *   *   *   *   *   *   *
*   NIO      -DNCSINAP   *   *   *   *   *   *   *   *   *   *
*   X25      -DNCSNAP, LAP   *   *   *   *   *   *   *   *   *
*   SNA      -DNCSTSR, DNCSPC, DNCSDC   *   *   *   *   *   *
*   NIA      -DNCSNIA   *   *   *   *   *   *   *   *   *
*   DXP      -DNCSNCP   *   *   *   *   *   *   *   *   *
*   TRP      -DNCSTRP, OPR SIT, SITPROC   *   *   *   *   *   *
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
*   OPTIONAL PATCHES:   *   *   *   *   *   *   *   *   *   *
*   TO INSTALL OPTIONAL PATCHES, ASSIGN SEPARATE SYNONYMS FOR EACH *
*   DESIRED PATCH. UNIQUE SYNONYMS OF THE FORM $PXXXX, WHERE XXXX *
*   IS THE PATCH NUMBER, CONTROL OPTIONAL PATCH INSTALLATION AND MUST *
*   HAVE THE VALUE 'YES'. FOR EXAMPLE, TO INSTALL P1750, ASSIGN VALUE *
*   YES TO THE SYNONYM $P1750. ENSURE THAT LAST PATCH NUMBER IN THE *
*   EUD COMMAND CONTAINS THE HIGHEST PATCH NUMBER APPLIED.   *
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
*   A LIST OF OPTIONAL PATCHES IN THIS PATCH FILE FOLLOWS:   *
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
*   P1750 -- ASSIGN DNCS PASSWORD WHEN SYSTEM IS BOOTED.   *
*   P3332 -- BUFFER SEGMENT SIZE PATCH TO CORRECT SVC ERROR 4008. *
*   P3995 -- SDLC CHARACTER DETECT MAY CAUSE EXCESSIVE VARYING OF *
*            PU INACTIVE/ACTIVE.   *
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
*   -----   *

```

```

*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
*   *** PATCH FILE DNOS 1.3.0 DNCS X25 RFT 1.3.0 LAST UPDATE 07/07/86*
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
*   INSTRUCTIONS:   *
*   THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY INVOKING *
*   THE 'PIDC' COMMAND PROCEDURE LOCATED ON THE DNCS NUCLEUS *
*   OBJECT INSTALLATION DISK, DCFWO. THE 'PIDC' COMMAND FILE IS *
*   ACCESSED BY ENTERING .USE DCFWO.RELEASE.PROC,.$CMDS. THIS PATCH *
*   BATCH STREAM MUST BE COPIED TO THE PATHNAME DCFWO.PATCH.PATRFT *
*   BEFORE INVOKING THE 'PIDC' COMMAND. USE OF THE 'PIDC' COMMAND *
*   IS DESCRIBED IN THE 'DNCS NUCLEUS OBJECT INSTALLATION GUIDE', *
*   PART NO. 2302660-9701.   *
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
*   MORE INFORMATION CONCERNING THIS PATCH FILE FOLLOWS:   *
*   LOCATION : @$DND.PATCH.PATRFT   *

```

```

* LISTING : @CUSTOM.LIST.PATRFT *
* PURPOSE : APPLY DNCS X25 RFT PATCHES *
* CALLED BY: @$DND.RELEASE.BAT.PIDC *
* *
* THE FOLLOWING SYNONYMS ARE ASSIGNED AUTOMATICALLY BY 'PIDC': *
* *
* $DND - DNCS NUCLEUS DIRECTORY *
* $DMD - DNCS SNA EMULATOR DIRECTORY *
* $D9D - DNCS 914A DIRECTORY *
* $DRD - DNCS RFT/X25 DIRECTORY *
* $DGD - DNCS GENERATION DIRECTORY *
* $CON - CONFIGURATION NAME *
* CUSTOM - DNCS CUSTOM DIRECTORY, @$DGD.$$DGU$.@$CON *
* CMDLIB - DNCS COMMAND DIRECTORY, @$DGD.$$DGU$.@$CON.D$CMDS *
* $CMDS - COMMAND FILE FOR 'BUD' AND 'EUD' *
* $OS - DNCS RELEASE NUMBER (1.2 OR 1.3) *
* *
* THE FOLLOWING SYNONYM MUST BE USED TO DEFINE THE DIRECTORY WHICH *
* CONTAINS THE CUSTOM LINKMAPS. THE DEFAULT VALUE FOR THIS SYNONYM *
* IS @CUSTOM. HOWEVER, FOR IS&S INTERNAL USE, THE SYNONYM CAN BE *
* MODIFIED TO POINT TO ANOTHER DIRECTORY AS REQUIRED. *
* *
* $CUS - DNCS CUSTOM DIRECTORY (LINKMAPS ONLY) *
* *
* THE DNCS PROGRAM FILES FOR PATCHING PURPOSES ARE: *
* @CUSTOM.$$DNCS.PGMTASK----DNCS TASKS (NON-MEMORY RESIDENT) *
* @CUSTOM.$$UTIL----DNCS MEMORY RESIDENT TASKS AND PROCEDURES *
* *
* X25 RFT TASK PATCHING IS CONFIGURATION DEPENDENT. 'PIDC' ASSIGNS *
* THE VALUE 'YES' TO THE FOLLOWING SYNONYMS TO INDICATE WHETHER THE *
* CORRESPONDING TASKS/PROCS ARE INSTALLED: *
* *
* RFT -RFT, OPR, MSG, CPY, SVQRFT, RFTPROC *
*-----*

```

```

*-----*
* *** PATCH FILE DNOS 1.3.0 DNCS PSCUSER 1.3.0 LAST UPDATE 04/23/87*
*-----*
* INSTRUCTIONS: *
* THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY INVOKING *
* THE 'PUPSC' COMMAND PROCEDURE LOCATED ON THE DNCS NUCLEUS *
* OBJECT INSTALLATION DISK, DCFWO. THE 'PUPSC' COMMAND FILE IS *
* ACCESSED BY ENTERING .USE DCFWO.RELEASE.PROC,$$CMDS. THIS PATCH *
* BATCH STREAM MUST BE COPIED TO THE PATHNAME DCFWO.PATCH.PUPSC *
* BEFORE INVOKING THE 'PUPSC' COMMAND. USE OF THE 'PUPSC' COMMAND *
* IS DESCRIBED IN THE 'DNCS/SNA USER'S GUIDE', PART NO. 2302663-9701*
* *
* MORE INFORMATION CONCERNING THIS PATCH FILE FOLLOWS: *

```

```

*   LOCATION : @$DND.PATCH.PUPSC
*   LISTING  : @$DND.PATCH.LSTUP
*   PURPOSE  : APPLY PATCHES TO PSC SUBROUTINES
*   CALLED BY: DCFWO.RELEASE.PROC.PUPSC
*
*   THE FOLLOWING SYNONYMS ARE AUTOMATICALLY ASSIGNED BY 'PUPSC':
*
*   $ULM    - USER LINKMAP PATHNAME
*   $UPF    - USER PROGRAM FILE PATHNAME
*   $UTK    - USER TASK NAME
*   $ALANG  - APPLICATION LANGUAGE
*   $DND    - DNCS NUCLEUS DIRECTORY
*   $DOV    - DNOS SYSTEM VOLUME
*   $CMDS   - COMMAND FILE FOR 'BUD' AND 'EUD'
*
*   THE USER'S PROGRAM FILE IS LOCATED AT:
*   @UPF--- USER PROGRAM FILE ACCESS NAME
*
*-----*

```

```

*-----*
* *** PATCH FILE  DNOS 1.3.0 DNCS RFT USER 1.3.0 LAST UPDATE 10/30/84*
*-----*
*   INSTRUCTIONS:
*   THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY INVOKING
*   THE 'PURFT' COMMAND PROCEDURE LOCATED ON THE DNCS NUCLEUS
*   OBJECT INSTALLATION DISK, DCFWO.  THE 'PURFT' COMMAND FILE IS
*   ACCESSED BY ENTERING .USE DCFWO.RELEASE.PROC,.S$CMDS. THIS PATCH
*   BATCH STREAM MUST BE COPIED TO THE PATHNAME DCFWO.PATCH.PURFT
*   BEFORE INVOKING THE 'PURFT' COMMAND.  USE OF THE 'PURFT' COMMAND
*   IS DESCRIBED IN THE 'DNCS/RFT USER'S GUIDE', PART NO. 2302640-9701
*
*   MORE INFORMATION CONCERNING THIS PATCH FILE FOLLOWS:
*   LOCATION : @$DND.PATCH.PURFT
*   LISTING  : @$DND.PATCH.LSTUR
*   PURPOSE  : APPLY PATCHES TO RFT INTERFACE SUBROUTINES
*   CALLED BY: DCFWO.RELEASE.PROC.PURFT
*
*   THE FOLLOWING SYNONYMS ARE AUTOMATICALLY ASSIGNED BY 'PURFT':
*
*   $ULM    - USER LINKMAP PATHNAME
*   $UPF    - USER PROGRAM FILE PATHNAME
*   $UTK    - USER TASK NAME
*   $ALANG  - APPLICATION LANGUAGE
*   $DND    - DNCS NUCLEUS DIRECTORY
*   $DOV    - DNOS SYSTEM VOLUME
*   $CMDS   - COMMAND FILE FOR 'BUD' AND 'EUD'
*
*   THE USER'S PROGRAM FILE IS LOCATED AT:

```

```
* @UPF--- USER PROGRAM FILE ACCESS NAME *
*-----*
*
*-----*
* PATCH FILE: DNOS 1.3.0, DNCS 1.3.0,          LAST UPDATE 10/17/87 *
*                SNA BATCH 1.0.0 *
*-----*
* INSTRUCTIONS: *
* THE USER IS EXPECTED TO EXECUTE THIS BATCH STREAM BY INVOKING *
* THE 'PATBLU' COMMAND PROCEDURE LOCATED ON THE DNCS/SNA BATCH *
* LOGICAL UNIT (SBLU) EMULATOR OBJECT INSTALLATION DISK, *
* DCBLU. THE 'PATBLU' COMMAND FILE IS ACCESSED BY ENTERING *
* .USE DCBLU.RELEASE.PROC,.S#CMDS. USE OF THE 'PATBLU' COMMAND *
* IS DESCRIBED IN THE 'DNOS DNCS/SNA BATCH OBJECT INSTALLATION' *
* GUIDE, PART NO. 2239997-9701. *
* *
* MORE INFORMATION CONCERNING THIS PATCH FILE FOLLOWS: *
* LOCATION : @$DBD.PATCH.PATBLU *
* LISTING  : @$DBD.PATCH.LSTBLU *
* PURPOSE  : APPLY DNCS SBLU EMULATOR PATCHES *
* CALLED BY: PATBLU SCI PROC *
* *
* THE FOLLOWING SYNONYMS ARE ASSIGNED AUTOMATICALLY BY 'PATBLU': *
* *
* $DBD - DNCS SBLU EMULATOR DIRECTORY *
* $DOV - DNCS SYSTEM VOLUME *
* $DCD - DNCS COMMAND DIRECTORY *
*-----*
```

5.8 DNOS DISTRIBUTED NETWORK I/O (DNIO) 2.1.0 PATCHES

The patch file for the DNOS Distributed Network I/O (DNIO) patches is "DNIO21.DNIOFAT". The value for "\$CMDS" is usually ".S\$CMDS,.S\$SYSTEM.S\$\$CMDS" for the major commands directory and the history commands. Patches must be applied according to the procedures described in the following instructions.

```

-----*
* *** PATCH FILE   DNOS 1.3.00  DNIO 2.1.00   LAST UPDATE 08/04/88 *
* -----*
* INSTALLATION PATHNAME:  DNIOINS.PATCH.DNIOFAT *
*
* INSTRUCTIONS: *
*
* THESE ARE THE PATCHES FOR THE DISTRIBUTED NETWORK I/O *
* RELEASE 2.1 AND/OR 2.1 PRODUCT. THE DNIO PROGRAM FILE, *
* ($$DNIO.PROGRAM), IS CHECKED TO BE SURE IT IS AVAILABLE. *
* THE DNIO PROGRAM FILE IS ASSUMED TO BE ON DSO1 IF THE *
* SYNONYM $OT IS NOT ASSIGNED. *
* THIS PATCH FILE IS APPLIED DURING DNIO INSTALLATION, IF *
* NO ERRORS ARE ENCOUNTERED BY THE INSTALLATION PROCESS, *
* OR BY USING THE 'PDNIO' PROC (PATCH DNIO) LOCATED ON THE *
* DNIO INSTALLATION DISK, DNIOINS. *
* USE OF THE 'PDNIO' PROC IS DESCRIBED IN THE *
* DISTRIBUTED NETWORK I/O OBJECT INSTALLATION GUIDE *
* (PART NUMBER 2308791-9701). *
*
* NOTE: *
* THIS PATCH FILE SHOULD ONLY BE EXECUTED DURING THE DNIO *
* INSTALLATION PROCESS OR BY USING THE 'PDNIO' PROC AS THIS *
* PROC WILL ASSIGN ANY SYNONYMS REQUIRED FOR PROPER EXECUTION*
*
* NOTE: *
* PATCH 4259 REPLACES THE DNIO STARTUP BATCH STREAM, *
* $$DNIO.BATCH.JOBINPUT. ANY USER MODIFICATIONS MADE *
* TO THIS BATCH STREAM WILL NEED TO BE MADE TO THE *
* NEW BATCH STREAM AFTER IT IS INSTALLED. REFER TO *
* P4259 FOR FURTHER INFORMATION. *
* -----*
* THE FOLLOWING SYNONYMS ARE OR MUST BE ASSIGNED BEFORE RUNNING *
* THIS BATCH STREAM: *
* $OT - VOLUME NAME OF SYSTEM DISK TO BE PATCHED. SHOULD INCLUDE *
* DNIO PROGRAM FILE. IF NOT ASSIGNED, DSO1 WILL BE USED. *
* $V - VOLUME NAME OF DNIO INSTALLATION DISK *
* $CMDS - THE MAJOR COMMANDS DIRECTORY AND THE HISTORY COMMANDS *
* CMDLIB - COMMAND DIRECTORY TO BE MODIFIED BY .PROC PATCHES *
* TEMP - A FILE UNIQUE TO THE USER, SUCH AS .TEMP@ME

```

* IF NOT ASSIGNED, .TEMP@ME WILL BE USED *

5.9 DNOS 3270 ICS COMMUNICATIONS 1.2.0 PATCHES

The patch files for DNOS ICS 3270 patches are ".DN327012.DNP3270", ".DN327012.DNPP3270", ".DN327012.PSC3270", and ".DN327012.TSK3270". The following instructions are for the DNOS 3270 ICS Communications patch application.

The value for "\$CMDS" is usually ".S\$CMDS.S\$SYSTEM.S#\$CMDS" for the major commands directory and the history commands.

```

-----*
* PATCH FILE DNP3270 DNOS 1.3 ICS 3270 1.2.0 LAST UPDATE 07/18/86 *
-----*
* NOTE: ICS 3270 1.2.0 IS COMPATIBLE WITH DNOS 1.3.0 AND 1.2.1 *
-----*
* TITLE: DNP3270
* ABSTRACT: THIS PATCH FILE PATCHES THE COMMUNICATIONS DSR
* ASSOCIATED WITH THE 3270 EMULATOR. COMMON
* MODULES IN THE PARTIAL LINK "DSR3270", ARE
* PATCHED BY "DNPCMON". PROTOCOL DEPENDENT
* MODULES ARE PATCHED BY "DNP3270".
* SPECIAL INSTRUCTIONS
* IF THIS FILE IS NOT CURRENTLY ON THE INSTALLATION MEDIA
* COPY THIS FILE USING 'CC' (COPY/CONCATENATE) TO THE FILE
* NAMES 'DN03270.DNOCMO.D3270.P.DNP3270' AND '.S$OSLINK.DNOCMO.
* D3270.P.DNP3270'. THIS PATCH FILE MUST BE APPLIED USING THE
* CURRENT "PGS" PROC. "PGS" IS AVAILABLE ON EACH SYSTEM DISK
* UNDER THE .S$CMDS DIRECTORY.
* ALL EMULATOR DSRS MUST BE GENERATED AND THE SYSTEM
* "ALGS" PERFORMED BEFORE PATCHING BEGINS.
* FOLLOW THE INSTRUCTIONS IN THE OBJECT INSTALLATION
* MANUAL(S) FOR THE EMULATOR(S) BEING INSTALLED.
* OPTIONAL PATCHES:
* P4194: WHEN USING FUNCTIONS KEYS, ERRORS OR
* UNEXPECTED RESULTS OCCUR WITH SOME
* HOST APPLICATIONS.
* THE FOLLOWING SYNONYMS ARE OR MUST BE ASSIGNED BEFORE RUNNING
* THIS BATCH STREAM
* $CMDS - THE MAJOR COMMANDS DIRECTORY AND THE HISTORY COMMANDS
* CMDLIB - THE COMMANDS DIRECTORY TO BE MODIFIED BY .PROC PATCHES
-----*

```

```

-----*
* PATCH FILE DNPP3270 DNOS 1.3 ICS 3270 1.2.0 LAST UPDATE 02/11/85*
-----*

```

```

-----*
* NOTE: ICS 3270 1.2.0 IS COMPATIBLE WITH DNOS 1.3.0 AND 1.2.1 *
-----*
* TITLE:      DNPP3270 *
* ABSTRACT:   THIS PATCH FILE PATCHES THE 3270 BUILD PROCESS *
*             PROCEDURES BEFORE THE BUILD PROCESS BEGINS. *
*             THE DISK PATCHED IS THE OBJECT INSTALLATION DISK. *
*             $CVN REPRESENTS THE DISK TO BE PATCHED. *
-----*
* *** SPECIAL INSTRUCTIONS *** *
* COPY THIS FILE USING 'CC'(COPY/CONCATENATE) REPLACING THE *
* CURRENT FILE WITH PATHNAME 'DNO3270.DNCOMD.D3270.P.DNPP3270'. *
* THIS PATCH FILE SHOULD BE APPLIED BY INVOKING "ICC" DURING *
* THE INITIAL PHASE OF A COMMUNICATION BUILD. *
-----*

```

```

-----*
* PATCH FILE PSC3270  DNOS 1.3  ICS 3270 1.2.0 LAST UPDATE 02/11/85 *
-----*
* NOTE: ICS 3270 1.2.0 IS COMPATIBLE WITH DNOS 1.3.0 AND 1.2.1 *
-----*
* THIS BATCH STREAM PATCHES THE DNOS ICS 3270 REL 1.2 PSC USER TASK *
* NOTE:      PATCHES SHOULD BE APPLIED TO EACH PSC USER TASK AFTER *
*             THE LINK EDIT PROCESS. THE LINKMAP OF THE USER TASK *
*             NEEDS TO BE SAVED FOR INPUT TO 'PTPSC' *
* THE FOLLOWING SYNONYMS MUST BE DEFINED PRIOR TO EXECUTING THIS *
* BATCH STREAM: *
*             SYNONYM      VALUE *
*             $$DSC$      SYSTEM DISK/VOLUME NAME *
*             $CMDS       THE MAJOR COMMANDS DIRECTORY AND HISTORY *
*             COMMANDS *
*             $CVN        EMULATOR OBJECT PATHNAME *
*             $CPGF       PSC USER PROGRAM FILE *
*             $CTN        PSC USER TASK NAME *
*             $CMAP       PSC USER LINKMAP PATHNAME *
*             $CLST       LISTING ACCESS NAME *
-----*
* *** SPECIAL PROCESSING *** *
* IF THIS FILE IS NOT CURRENTLY ON THE INSTALLATION MEDIA *
* COPY THIS FILE USING 'CC' (COPY/CONCATENATE) REPLACING *
* THE CURRENT FILE WITH FILENAME 'DNO3270.PAT.PSC3270' *
* BEFORE EXECUTING 'PTPSC'(PATCH ICS PSC USER TASK) *
-----*

```

```

-----*
* PATCH FILE TSK3270  DNOS 1.3  ICS 3270 1.2.0 LAST UPDATE 05/08/87 *
-----*

```

```

*-----*
* NOTE: ICS 3270 1.2.0 IS COMPATIBLE WITH DNOS 1.3.0 AND 1.2.1 *
*-----*
* ABSTRACT: *
*   THESE ARE THE PATCHES FOR THE 3270 EMULATOR TASKS. THE TASK *
*   LINKMAP (TSKMAP) AND THE COMM PROGRAM FILE (.S$COMMON) ARE *
*   CHECKED TO BE SURE THEY ARE AVAILABLE. *
*   THE LINKMAP IS ASSUMED TO RESIDE ON THE LISTING DIRECTORY *
*   DESCRIBED WHEN BUILDING THE TASK(S) USING THE PROC 'BET' *
*   (BUILD EMULATOR TASKS). *
*   THE COMM PROGRAM FILE IS ASSUMED TO BE ON DS01 IF THE *
*   SYNONYM $$DSC$ IS NOT ASSIGNED. *
*   THIS PATCH FILE IS APPLIED AT TASK INSTALLATION OR BY *
*   USING THE 'PT3270' PROC (PATCH 3270 COMMUNICATIONS TASKS) *
*   LOCATED ON THE EMULATOR OBJECT INSTALLATION DISK, DNO3270. *
*   USE OF THE 'PT3270' PROC IS DESCRIBED IN THE 'DNOS 3270 *
*   EMULATOR OBJECT INSTALLATION DOCUMENT', *
*   (PART NO. 2302671-9701). *
* NOTE: *
*   THIS PATCH STREAM SHOULD ONLY BE EXECUTED DURING THE TASK *
*   INSTALLATION PROCESS OR BY USING THE 'PT3270' PROC AS *
*   THIS PROC WILL ASSIGN ANY SYNONYMS REQUIRED FOR PROPER *
*   EXECUTION. *
* NOTE: *
*   A 'CM' PROC (CREATE MESSAGE) MUST BE USED FOR THE ERROR COUNT *
*   MESSAGE AT THE END OF THIS PATCH FILE SINCE THIS PATCH FILE *
*   IS NESTED IN ANOTHER BATCH STREAM AND/OR PROCEDURE. *
* SPECIAL INSTRUCTION: *
*   IF THIS FILE IS NOT CURRENTLY ON THE INSTALLATION MEDIA *
*   COPY THIS FILE USING 'CC'(COPY/CONCATENATE) REPLACING *
*   THE CURRENT FILENAME 'DNO3270.PAT.TSK3270' *
* OPTIONAL PATCHES: *
* P4077: PREVENTS THE CONVERSION OF NULLS TO BLANKS *
*   IN UNPROTECTED FIELDS ON 911 TERMINALS. *
* P4079: PREVENTS THE CONVERSION OF NULLS TO BLANKS *
*   IN UNPROTECTED FIELDS ON 931 TERMINALS. THIS *
*   PATCH MUST BE APPLIED WITH 931 DSR PATCH # *
*   4046 FOR DNOS 1.2.1 OR PATCH #4047 FOR DNOS *
*   1.3.0 TO WORK PROPERLY. *
* P4170: ISSUES TIME DELAY TO LET 931 DSR PROCESS READ *
*   (931 WILL OCCASIONALLY WRITE GARBAGE TO THE *
*   SCREEN). *
* THE FOLLOWING SYNONYMS ARE OR MUST BE ASSIGNED BEFORE RUNNING *
* THIS BATCH STREAM: *
*   $$DSC$ - THE COMM PROGRAM FILE DISK NAME *
*   $CMDS - THE MAJOR COMMANDS DIRECTORY AND THE HISTORY COMMANDS *
*   CMDLIB - THE COMMANDS DIRECTORY TO BE MODIFIED BY .PROC PATCHES *
*   $CLST - THE DIRECTORY NAME WHERE THE LINK MAPS RESIDE *
*-----*

```

5.10 DNOS FORTRAN-78 1.3.0 PATCHES

The patch file for the DNOS FORTRAN-78 patches is ".FORT7813". This patch file may be applied using Execute Batch (XB) command. The following instructions can be used for applying the patches to DNOS FORTRAN-78:

The value for "\$CMDS" is usually ".S\$CMDS,.S\$SYSTEM.S\$\$CMDS" for the major commands directory and the history commands.

```
*-----*
* *** PATCH FILE  DNOS FORTRAN-78 1.3.0    LAST UPDATE 10/09/84    *
*-----*
*      INSTRUCTIONS:
* READ THESE INSTRUCTIONS BEFORE EXECUTING THIS BATCH STREAM.
* THIS BATCH STREAM APPLIES PATCHES TO DNOS FORTRAN-78 1.3.0.
* PATCHES ARE APPLIED TO THE COMPILER, RUN-TIME, AND SCI
* COMMANDS.
*
* THE MODIFY PROGRAM IMAGE (MPI) COMMAND IS USED TO APPLY
* PATCHES TO THE COMPILER.
*
* TO PATCH THE RUN-TIME, THE RUN-TIME OBJECT MODULE IS REPLACED.
* THIS AVOIDS PROBLEMS THAT MAY RESULT IF MODIFY RELATIVE TO FILE
* (MRF) IS USED AND THE RUN-TIME DIRECTORY HAS BEEN COPIED WITH A
* NEW PHYSICAL RECORD LENGTH SPECIFIED.
*
* TO PATCH SCI COMMANDS, THE SCI COMMAND IS REPLACED USING
* .PROC AND .EOP.
*
* IF YOU HAVE INSTALLED FORTRAN-78 FOR EXECUTION ONLY, AS
* DESCRIBED IN THE FORTRAN-78 OBJECT INSTALLATION MANUAL,
* YOU SHOULD USE THE PATCH FILE FORT78EO. AN EXECUTION ONLY
* INSTALLATION INSTALLS ONLY THE SCI COMMANDS XFT AND XFTF,
* AND THE FORTRAN-78 RUN-TIME MESSAGE FILE. THE COMPILER
* AND RUN-TIME LIBRARY ARE NOT INSTALLED.
*
* TO EXECUTE THIS BATCH STREAM, ASSIGN THE SYNONYMS YOU
* NEED AS DESCRIBED BELOW, THEN USE THE EXECUTE BATCH (XB)
* COMMAND TO EXECUTE THIS BATCH STREAM. FOR EXAMPLE,
*
*      XB INPUT=<VOLUME>.FORT78, LIST=.LISTING
*
* WHERE <VOLUME> REPRESENTS THE DISK VOLUME OR DIRECTORY
* PATHNAME CONTAINING THIS PATCH FILE, AND .LISTING IS
* THE PATHNAME OF A SEQUENTIAL FILE OR DEVICE WHERE THE
```

```
* BATCH STREAM LISTING WILL BE SENT.
*
* TO ASSIGN SYNONYMS, YOU MAY USE THE ASSIGN SYNONYM (AS)
* COMMAND. FOR EXAMPLE
*
*     AS S=VOLBLD, V=SYS1
*
* WOULD BE USED TO ASSIGN THE VALUE SYS1 TO THE SYNONYM VOLBLD.
*
* REQUIRED SYNONYM ASSIGNMENT:
* YOU MUST ASSIGN THE FOLLOWING SYNONYM BEFORE RUNNING THIS
* BATCH STREAM:
*
* VOLBLD - THE VOLUME NAME OF THE DISK CONTAINING THE PROGRAM FILE
*         S$LANG. THIS IS NORMALLY THE SYSTEM DISK.
*
* OTHER SYNONYM ASSIGNMENTS:
*
* VOLRTM - IF THE RUN-TIME LIBRARY .FORT78 IS NOT ON THE SAME
*         DISK VOLUME IDENTIFIED BY SYNONYM VOLBLD, ASSIGN
*         THE SYNONYM VOLRTM TO THE DISK VOLUME NAME OR
*         DIRECTORY PATHNAME CONTAINING THE RUN-TIME LIBRARY.
*         FOR EXAMPLE, IF THE RUN-TIME LIBRARY IS INSTALLED
*         AT DISK2.LIB.FORT78, YOU WOULD ENTER
*
*         AS S=VOLRTM, V=DISK2.LIB
*
* YOU MUST ASSIGN THE FOLLOWING SYNONYMS IF YOU HAVE MOVED SCI
* COMMAND PROCEDURES INTO COMMAND DIRECTORIES OTHER THAN THOSE
* SUPPLIED WITH YOUR SOFTWARE:
*
* $CMDS - THE MAJOR COMMANDS DIRECTORY(IES)
*
* CMDLIB - THE COMMAND DIRECTORY CONTAINING THE XF78, XF78F,
*         XFT, AND XFTF COMMANDS.
*-----*
```

5.11 DNOS PASCAL 1.8.0 PATCHES

The patches for DNOS Pascal are located in the file ".PASCAL18". The Execute Batch (XB) command should be used to execute the patch file to apply the Pascal patches. The following instructions should be used to apply the patches:

```
*-----*
* *** PATCH FILE  DNOS PASCAL 1.8.0                LAST UPDATE 10/22/86 *
*-----*
*      INSTRUCTIONS:
* THIS BATCH STREAM APPLIES PATCHES TO TI PASCAL (TIP) 1.8.0
*
* YOU MUST ASSIGN THE FOLLOWING SYNONYM BEFORE RUNNING THIS
* BATCH STREAM:
*
* VOLBLD - THE VOLUME NAME OF THE SYSTEM DISK WHOSE SOFTWARE
*         CONFIGURATION IS TO BE UPDATED.
*
* YOU MUST ASSIGN THE FOLLOWING SYNONYM IF YOU HAVE MOVED SCI
* COMMAND PROCEDURES INTO COMMAND DIRECTORIES OTHER THAN THOSE
* SUPPLIED WITH YOUR SOFTWARE:
*
* $CMDS - THE MAJOR COMMANDS DIRECTORY(IES) AND THE HISTORY COMMANDS
*
* IF YOU WISH TO HAVE OPTIONAL PATCHES APPLIED, YOU MUST ASSIGN
* THE FOLLOWING SYNONYMS TO YES.
*
* OPT1 - IF GIVEN THE VALUE "YES", THIS TURNS UNDERFLOW CHECKING FOR
*        REAL VALUES OFF.
*
* OPT2 - IF GIVEN THE VALUE "YES", THIS REMOVES SOME OPTIMIZATION,
*        BUT FIXES A PROBLEM WITH FOR .. DOWNT0 LOOPS.
*-----*
```

5.12 DNOS SORT/MERGE 1.0.0 PATCHES

The patch file for DNOS SORT/MERGE 1.0.0 patches is ".SM10". This patch file may be executed using the Execute Batch (XB) command. The following instructions may be used to apply the patches.

```
*-----*
* *** PATCH FILE  DNOS SORT/MERGE 1.0.0          LAST UPDATE 11/24/85
*-----*
* YOU MUST ASSIGN THE FOLLOWING SYNONYMS BEFORE YOU RUN THIS BATCH
* STREAM:
*
* VOLBLD - VOLUME NAME OF THE DISK WHERE THE SORT/MERGE PACKAGE IS
*         INSTALLED
* $CMDS  - MAJOR COMMANDS DIRECTORY AND HISTORY COMMANDS DIRECTORY
*         (THE STANDARD FOR DNOS IS ".S$CMDS,.S$SYSTEM.S$$CMDS")
* CMDLIB - SORT/MERGE COMMANDS DIRECTORY (CONTAINS THE COMMANDS
*         MODIFIED BY THE .PROC PATCHES)
* $OPT   - OPTIONAL SYNONYM FOR PATCH 1392. PLEASE READ THE
*         INSTRUCTIONS UNDER OPTIONAL PATCHES AND FOR PATCH 1392
*         BEFORE YOU ASSIGN A VALUE TO THIS SYNONYM.
* VOLADU - OPTIC     SYNONYM FOR PATCH 1735. PLEASE READ THE
*         INSTRUCTIONS UNDER OPTIONAL PATCHES AND FOR PATCH 1735
*         BEFORE YOU ASSIGN A VALUE TO THIS SYNONYM.
*
* OPTIONAL PATCHES:
* READ THE DESCRIPTIONS FOR ALL OF THE OPTIONAL PATCHES BEFORE
* YOU RUN THIS BATCH STREAM. OPTIONAL PATCHES HAVE AN ASTERISK
* FOLLOWED BY THE PATCH NUMBER IN COLUMNS 1-5. YOU MUST REMOVE
* THESE BEFORE YOU APPLY THE OPTIONAL PATCHES. SOME OF THE
* OPTIONAL PATCHES ALSO REQUIRE YOU TO SET CERTAIN SYNONYMS,
* WHICH ARE DESCRIBED BELOW.
*
* THE FOLLOWING ARE OPTIONAL PATCHES FOR DNOS SORT/MERGE:
*
* P1392 - PRINT OPTION PATCH FOR DNOS DXP. YOU MUST SET
*         $OPT TO "Y" TO APPLY THIS PATCH INSTEAD OF P2349.
* P1735 - TEMPORARY WORK FILE DISK OPTIMIZATION. YOU MUST
*         ASSIGN A VALUE TO THE SYNONYM VOLADU ACCORDING
*         TO THE INSTRUCTIONS PROVIDED WITH PATCH P1735.
*-----*
```

5.13 DNOS TIFORM 3.3.0 PATCHES

The patch files for DNOS Tiform 3.3.0 are ".TIFRM33.LINKD820", ".TIFRM33.LINKD911", ".TIFRM33.MTASK". The Execute Batch (XB) command should be used to apply the patch files. The ".TIFRM33.MTASK" patch file is for patching DNOS Tiform and should be applied by all Tiform users.

The files ".TIFRM33.LINKD820" and ".TIFRM33.LINKD911" are for users with an application that was linked with the Tiform linkable modules.

The value for "\$CMDS" is usually ".S\$CMDS.S\$SYSTEM.S\$\$CMDS" for the major commands directory and the history commands.

Please read the optional patch information contained in the instructions carefully. The following instructions may be used to apply the DNOS Tiform patches:

```

*-----*
* *** PATCH FILE DNOS          TIFORM LINKD820 3.3.0 LAST UPDATE 05/21/85
*-----*
*  TITLE:  PATCH STREAM TO APPLY PATCHES TO AN APPLICATION LINKED
*           WITH THE TIFORM LINKABLE MODULES.
*  NOTE:  ASSIGN THE FOLLOWING SYNONYMS:
*          PRG      = THE PATHNAME OF THE PROGRAM FILE WHERE YOUR
*                   COMPLETELY LINKED APPLICATION RESIDES.
*          MTYPE   = "TA" IF THE APPLICATION IS A TASK
*                   OR "PR" IF THE APPLICATION IS A PROCEDURE
*          BASE    = THE HEX VALUE FROM THE APPLICATION LINK MAP OF THE
*                   ORIGIN OF THE MODULE 'YY$LINKD' (WHERE "YY" IS THE
*                   INTERFACE TYPE USED BY THE APPLICATION)
*          LD$D    = THE HEX VALUE OF THE $DATA MODULE IMMEDIATELY AFTER
*                   THE 'YY$LINKD' MODULE IN THE APPLICATION LINK MAP.
*          TASKNAME = THE INSTALLED NAME OF THE APPLICATION.
*          INTRTYPE = 'YY' FROM THE 'YY$LINKD' MODULE TO IDENTIFY THE
*                   TYPE OF LANGUAGE INTERFACE THE APPLICATION USES.
*          NFM$TB  = LOAD ADDRESS FROM THE APPLICATION LINK MAP FOR
*                   THE $DATA MODULE THAT FOLLOWS THE NFM$TB MODULE.
*          NFM$LN  = LENGTH FROM THE APPLICATION LINK MAP OF THE
*                   $DATA MODULE THAT FOLLOWS THE NFM$TB MODULE.
*  OPTIONAL PATCHES:
*          READ THE DESCRIPTIONS OF ALL OPTIONAL PATCHES BEFORE IN-
*          STALLING THEM. OPTIONAL PATCHES HAVE BEEN COMMENTED OUT IN
*          COLUMN ONE. THE ASTERISK MUST BE REMOVED FROM
*          COLUMN ONE TO APPLY THE DESIRED OPTIONAL PATCHES.

```

```

* P3174 RHR 10/18/82 STR #16728 DNOS TIFORM 3.3.0 EXECPROC
* NOPNF$ WAS NOT RELEASING MEMORY. SVC CALL WAS NOT USING R9.
* SINCE PATCH # 3606 CAUSES UNUSED MEMORY TO BE RELEASED, SUBSEQUENT
* OPEN FORM AND PREPARE SEGMENT COMMANDS REQUIRE MORE GET MEMORY
* SVC CALLS. RELEASE 3.3 FIXED THIS. THIS PATCH (3174) SUPPRESSES
* THE RELEASE MEMORY TO AVOID THE SWAPPING THIS CAUSES.
* P3536 RHR 03/30/84 STR #17432 DNOS TIFORM 3.3 EXECPROC/FDLC
* THE FRENCH KEYBOARD USES AN ASCII COMMA FOR A DECIMAL POINT.
* THIS OPTIONAL PATCH ALLOWS TIFORM TO RECOGNIZE THIS DIFFERENCE.
* NOTE THAT YOU MUST RECOMPILE YOUR FORMS AFTER APPLYING THIS PATCH.
*-----*

```

```

*-----*
* *** PATCH FILE DNOS TIFORM LINKD911 3.3.0 LAST UPDATE 5/21/85
*-----*
* TITLE: PATCH STREAM TO APPLY PATCHES TO AN APPLICATION LINKED
* WITH THE TIFORM LINKABLE MODULES.
* NOTE: ASSIGN THE FOLLOWING SYNONYMS:
* PRG = THE PATHNAME OF THE PROGRAM FILE WHERE YOUR
* COMPLETELY LINKED APPLICATION RESIDES.
* MTYPE = "TA" IF THE APPLICATION IS A TASK
* OR "PR" IF THE APPLICATION IS A PROCEDURE
* BASE = THE HEX VALUE FROM THE APPLICATION LINK MAP OF THE
* ORIGIN OF THE MODULE 'YY$LINKD' (WHERE "YY" IS THE
* INTERFACE TYPE USED BY THE APPLICATION)
* LD$D = THE HEX VALUE OF THE $DATA MODULE IMMEDIATELY AFTER
* THE 'YY$LINKD' MODULE IN THE APPLICATION LINK MAP.
* TASKNAME = THE INSTALLED NAME OF THE APPLICATION.
* INTRTYPE = 'YY' FROM THE 'YY$LINKD' MODULE TO IDENTIFY THE
* TYPE OF LANGUAGE INTERFACE THE APPLICATION USES.
* NFM$TB = LOAD ADDRESS FROM THE APPLICATION LINK MAP FOR
* THE $DATA MODULE THAT FOLLOWS THE NFM$TB MODULE.
* NFM$LN = LENGTH FROM THE APPLICATION LINK MAP OF THE
* $DATA MODULE THAT FOLLOWS THE NFM$TB MODULE.
* OPTIONAL PATCHES:
* READ THE DESCRIPTIONS OF ALL OPTIONAL PATCHES BEFORE IN-
* STALLING THEM. OPTIONAL PATCHES HAVE BEEN COMMENTED OUT IN
* COLUMN ONE. THE ASTERISK MUST BE REMOVED FROM
* COLUMN ONE TO APPLY THE DESIRED OPTIONAL PATCHES.
* P3174 RHR 10/18/82 STR #16728 DNOS TIFORM 3.3.0 EXECPROC
* NOPNF$ WAS NOT RELEASING MEMORY. SVC CALL WAS NOT USING R9.
* SINCE PATCH #3606 CAUSES UNUSED MEMORY TO BE RELEASED, SUBSEQUENT
* OPEN FORM AND PREPARE SEGMENT COMMANDS REQUIRE MORE GET MEMORY
* SVC CALLS. THIS PATCH (3174) SUPPRESSES THE RELEASE MEMORY TO
* AVOID THE SWAPPING THIS CAUSES.
* P3536 RHR 03/30/84 STR #17432 DNOS TIFORM 3.3 EXECPROC/FDLC
* THE FRENCH KEYBOARD USES AN ASCII COMMA FOR A DECIMAL POINT.
* THIS OPTIONAL PATCH ALLOWS TIFORM TO RECOGNIZE THIS DIFFERENCE.

```

* NOTE THAT YOU MUST RECOMPILE YOUR FORMS AFTER APPLYING THIS PATCH.

* *** PATCH FILE DNOS TIFORM MTASK 3.3.0 LAST UPDATE 10/10/86 *

* NOTE: ASSIGN THE FOLLOWING SYNONYMS BEFORE EXECUTING THIS BATCH:
*

* VOLBLD - TO THE VOLUME NAME OF THE DISK ON WHICH THE TIFORM
* PACKAGE IS INSTALLED.

* \$CMDS - MAJOR COMMANDS DIRECTORY AND HISTORY COMMANDS
* DIRECTORY (THE STANDARD FOR DNOS IS
* ".S\$CMDS,.S\$SYSTEM.S\$\$CMDS")

* CMDLIB - TIFORM COMMANDS DIRECTORY (CONTAINS THE COMMANDS
* MODIFIED BY THE .PROC PATCHES)

* OPTIONAL PATCHES:

* READ THE DESCRIPTIONS OF ALL OPTIONAL PATCHES BEFORE IN-
* STALLING THEM. OPTIONAL PATCHES HAVE BEEN COMMENTED OUT IN
* COLUMN ONE. THE ASTERISK MUST BE REMOVED FROM COLUMN ONE TO
* APPLY THE DESIRED OPTIONAL PATCHES.
*

* OPTIONAL PATCHES REFER TO THE FOLLOWING PROBLEMS AND PATCH
* NUMBERS:

*P3591 RHR 06/12/84 STR #13251 DNOS TIFORM 3.3.0 EXECPROC

* PROBLEM:

* AS RELEASED, THE EXECPROC WILL DELETE BLANKS ON A "JUSTIFY R"
* FIELD WHICH ARE EMBEDDED IN THE TEXT. PATCH 2090 ATTEMPTED TO
* FIX THIS, BUT THE OFFSET WAS WRONG. THE OFFSET IS RIGHT IN THIS
* PATCH.

* SOLUTION:

* THIS OPTIONAL PATCH SUPPRESSES BLANK DELETION ON A RIGHT JUSTIFIED
* FIELD.

*P3174 RHR 01/20/84 STR #16728 DNOS TIFORM 3.3.0 EXECPROC

* PROBLEM:

* SINCE NOPNF\$ NOW CAUSES UNUSED MEMORY TO BE RELEASED, SUBSEQUENT
* OPEN FORM AND PREPARE SEGMENT COMMANDS REQUIRE MORE GET MEMORY
* SVC CALLS. THIS CONTINUAL SWAPPING CAN SLOW THE EXECUTION.

* SOLUTION:

* THIS PATCH (3174) SUPPRESSES THE RELEASE MEMORY TO AVOID THE
* SWAPPING THIS CAUSES.

*P3353 RHR 01/20/84 STR #13969 DNOS TIFORM 3.3.0 EXECPROC

* PROBLEM:

* RELEASE 3.3 DISABLED RETRY LOGIC FOR SVC\$ TO AVOID NEEDLESS
* LOOPING AFTER A TIMEOUT. SOME USERS WANT THE PRINT KEY TO
* TIE UP THE TERMINAL UNTIL THE PRINT COMPLETES.

* SOLUTION:

* USERS WHO WISH TO ENSURE THAT THE PRINT

* KEY TIES UP THE TERMINAL UNTIL THE PRINT IS COMPLETE CAN SET
* THIS RETRY COUNT BY APPLYING THIS PATCH. THIS PATCH RESETS
* THE RETRY COUNT FOR >8 TIMES. YOU CAN ADJUST THIS VALUE IN
* THIS PATCH DEPENDING ON THE REQUIREMENTS OF YOUR SYSTEM.
* THIS WILL NOT LOOP ENDLESSLY ON A TIME-OUT OR A
* DISCONNECT ERROR, BUT IT WILL LOOP THE NUMBER OF TIMES THAT
* YOU SET THE RETRY FOR.

*P3536 RHR 03/30/84 STR #17432 DNOS TIFORM 3.3 EXECPROC/FDLC
* THE FRENCH KEYBOARD USES AN ASCII COMMA FOR A DECIMAL POINT.
* THIS OPTIONAL PATCH ALLOWS TIFORM TO RECOGNIZE THIS DIFFERENCE.
* NOTE THAT YOU MUST RECOMPILE YOUR FORMS AFTER APPLYING THIS PATCH.

*P3603 RHR 6/21/84 STR # 17880 DNOS TIFORM 3.3.0 LINKD/EXECPROC
* PROBLEM:
* AS RELEASED, THE LINKD DIRECTORY ON THE OBJECT INSTALLATION DISK
* DOES NOT CONTAIN SIX PARTIAL LINK CONTROL STREAMS NECESSARY TO
* BUILD THE INTERMEDIATE PARTIAL OBJECT FOR THE LINKD EXECUTOR.
* THE BLDLINKD COMMAND PROCEDURE ASSUMES THESE FILES TO RESIDE
* IN THE LINKD DIRECTORY WHICH IS IN THE DIRECTORY KNOWN BY THE
* SYNONYM TIFRMIN. PATCH #3570 WAS BAD. THIS ONE REPLACES IT.
* SOLUTION:
* THIS OPTIONAL PATCH COPIES THE NECESSARY PARTIAL LINK CONTROL
* STREAMS INTO THE TIFRMIN.LINKD DIRECTORY. YOU MUST ASSIGN THE
* SYNONYM TIFRMIN TO THE PATHNAME UNDER WHICH YOUR LINKD
* DIRECTORY RESIDES. FOR INSTANCE, IF YOUR LINKD DIRECTORY IS
* ON THE OBJECT INSTALLATION DISK NAMED TIFRMNF3, ASSIGN THE
* SYNONYM AS FOLLOWS: AS SYNONYM=TIFRMIN, VALUE=TIFRMNF3.

*P3575 RHR 5/11/84 STR # 13250 DNOS TIFORM 3.3.0 EXECPROC
* PROBLEM:
* JUSTIFICATION FORCES A ZERO INTO AN EMPTY RIGHT-JUSTIFIED
* FIELD. THIS IS CORRECT, BUT SOME APPLICATIONS NEED TO MAINTAIN
* A NULL VALUE RATHER THAN A ZERO.
* SOLUTION:
* THIS PATCH DISABLES THE LOGIC IN IJUST\$ THAT PROVIDES THE FILL
* CHARACTER FOR A RIGHT-JUSTIFIED FIELD.

*P4020 RHR 4/23/85 STR # 13950 DNOS TIFORM 3.3.0 INTERFACES
* PROBLEM:
* THE CHANGE IPC COMMAND DOES NOT WORK.
* SOLUTION:
* PATCH THE IPC MODULE'S INTERFACE OBJECT. ONCE YOU HAVE APPLIED
* THIS PATCH, YOU MUST RELINK YOUR APPLICATION WITH THE PATCHED
* INTERFACE. THIS PATCH CLOSSES THE IPC CHANNEL BY BRANCHING TO
* CIPCC\$ FROM CFUTIL\$ (CCIC21--JUST AFTER PUTTING EXECUTOR'S
* INTERNAL RUN ID IN CALLER'S ARGUMENT). OPTION 18 OF THE
* FORMTSTR UTILITY HAS THE SAME PROBLEM. PATCH #4022 FIXES THE
* FORMTSTR PROBLEM.

5.14 DNDS TIPE 2.2.0 PATCHES

The patch file for the DNDS TIPE 2.2.0 patches is ".TIPE22". The patch file may be executed using the Execute Batch (XB) command. The following instructions may be used to apply the DNDS TIPE 2.2.0 patches:

The value for "\$CMDS" is usually ".S\$CMDS,.S\$SYSTEM.S\$\$CMDS" for the major commands directory and the history commands.

```
*-----*
*   *** PATCH FILE  DNDS 1.3.0 TIPE 2.2.0           LAST UPDATE 03/25/86
*-----*
*   INSTRUCTIONS:
*   YOU MUST ASSIGN THE FOLLOWING LOGICAL NAME BEFORE RUNNING
*   THIS BATCH STREAM:
*
*   VOLBLD - VOLUME NAME OF THE SYSTEM DISK
*
*   YOU MUST ASSIGN THE FOLLOWING SYNONYM (IF YOU ARE USING OPTIONAL
*   PATCH 3497) BEFORE RUNNING THIS BATCH STREAM:
*
*   TPEDEF - SET TO (YES) TO REENABLE THE DELETE FILE CAPABILITY
*           SET TO (NO) TO DISABLE THE DELETE FILE CAPABILITY
*
*   YOU MUST ASSIGN THE FOLLOWING SYNONYMS IF YOU HAVE MOVED SCI
*   COMMAND PROCEDURES INTO COMMAND DIRECTORIES OTHER THAN THOSE
*   SUPPLIED WITH YOUR SOFTWARE:
*
*   $CMDS  - THE MAJOR COMMANDS DIRECTORY(IES) AND THE HISTORY COMMANDS
*   CMDLIB - COMMAND DIRECTORY TO BE MODIFIED BY .PROC PATCHES
*-----*
```


SECTION 6

SCSI CHANGES

With the addition of the 990/SCSI disk/tape controller and associated devices to the Business System family of computers, some DNOS utilities and operating system functions have changed. This document describes those changes. In some cases, the operator may not notice any difference, while in other cases, procedures may need to be changed.

At this time, there are three devices available for use with the 990/SCSI controller. They are the DB380 (380 MB) disk drive, the DB182 (182 MB) disk drive, and the CT60 cartridge tape drive. If, in the future, other disk or tape drives are offered by Texas Instruments for use with the 990/SCSI controller, the information in this document may or may not be applicable to such devices.

While performing an IDS on a DB380 or DB182 disk drive, one should be aware that the display of approximate percent complete is not valid. Assuming no errors are found on the disk, the IDS procedure (LENGTH=SHORT recommended) should take about 70 minutes for the DB380 and about 35 minutes for the DB182. During this time, the approximate percent complete display will show less than one percent. Then, the percent complete should click off rapidly. This phenomenon occurs since a single command causes the entire SCSI disk to be analyzed before command complete is reported back to the IDS task.

There are two differences between the traditional 990 disk/tape drives and the new SCSI drives.

The first is the disk sector size. Previously, the only sector sizes supported by DNOS were 256 bytes and 288 bytes. With this update, a 512 byte sector is supported. This may require changes to any task that directly accesses IMAGE or PROGRAM files. Their record lengths are always equal to the disk sector size.

The second difference is that the CT60 cartridge tape drive is incapable of performing a backspace operation. Therefore, a new tape DSR (device service routine) has been released and is available with this update. Due to this difference, a full system generation is required after installing the updates, before the CT60 cartridge tape drive can be used. If the system generation is omitted, the CT60 drive will work; however, the integrity of data stored on the cartridge tape is in question.

With the new tape DSR, any task that issues a backspace operation to a CT60 tape drive will receive an "illegal opcode" error, to indicate the backspace operation was not performed. Tasks may need to be modified if a CT60 cartridge tape drive is to be used.

Several utilities have been modified to support the 990/SCSI controller and devices. Some have been patched, while others required a whole new utility be installed. The individual utilities are discussed below. Except where noted, all utilities will perform exactly as before.

ANALZ - Crash Analysis

New features have been added to ANALZ. Use the command "??" to determine the available commands. Some of the new commands are:

- * PA - Prints last patch numbers
- * AST - Analyze system tables
- * TRC - Dumps /12 hardware trace info on >6x crash
- * ANLZ - Analyze the crash
- * DSEG - Dump System DSEG blocks
- * DTAB - Dump Table Structures (STA)
- * ITC - Dump ITC Messages
- * MAPS - Dump System Map Files and System Configuration (limited)
- * NPDT - Dump a Named PDT

Commands may have up to 4 characters in the name. The dump memory (DM) command may also be used to dump a block of memory by giving a block size for the ending address. For example, DM with start 2000, end 40, will dump from 2000 through 203E. Some confusion exists for start at 40, end at 60, since 40 through 60 will be dumped, but as long as the size is less than the start address, the implied block dump will occur.

BD - Backup Directory

BDD - Backup Directory to Device

When backing up a directory to a CT60 cartridge tape, the verification step cannot be performed. If the

verify option has been requested, the operator will be notified that the verification cannot be performed. Verify backup (VB) should be used to verify these backups.

CPI - Copy Program Image

CRV - Check and Reset Volume

CSM - Copy Sequential Media

CV - Copy Volume

CVD - Copy and Verify Disk

DCOPY - Disk Copy

RD - Restore Directory

Restore Directory can be used without the UTILITY patches being installed, unless the SEQUENTIAL ACCESS NAME is a disk drive. It will work correctly when used with the CT60 tape drive.

RVS - Recover Volume Space

SD - Scan Disk

UL - Unload Luno

Unload luno is a utility which has been added for support of the CT60 tape drive. Its primary purpose is for cartridge tape tensioning. It will cause the cartridge tape to position to the end of the tape and then rewind to the beginning. This will extend the useful life of the tape cartridge.

The UL command can also be used with reel-to-reel tape drives to cause the tape to be unloaded from the tape drive.

Before using this command, a luno must be assigned to the device with the assign luno (AL) command.

VMT - Verify Magnetic Tape

