TO	Jerry Petersen Small Systems Planning WHQ – Room 5D76	DATE OF REQUEST 3-9-83	FROM	Richard Holmes Section Manager B1000 Software Support
		DATE OF REPLY		Product Assurance and Support
		INVOICE NO. AND DATE		6300 Hollister Avenue

SUBJECT

B1000 Patch Release Mark 10.0.2

Goleta, CA 93117

cc. D. Edlin
    B. Patterson

Attached is the Software Distribution Services transmittal paperwork for the B1000 system software Mark 10.0 Patch Release #2. Please sign it and forward it to Software Distribution Services. If you have any questions or see any problems, please call Don Edlin, Ben Patterson, or myself. Thank you.

Richard Holmes

ATTCH
rh

REPLY

| SIGNATURE | DATE |

SUBJECT: Availablity of Patch Release 2 to the B1000 Mark 10.0
            System Software

STYLE NO: B1000 BAS   B1000 FOR   B1000 SMC
            B1000 BNS   B1000 FR1   B1000 SRT
            B1000 CB1   B1000 HAS   B1000 SYC
            B1000 CE1   B1000 MP2   B1000 TAB
            B1000 COB   B1000 NDL   B1000 TE1
            B1000 DM1   B1000 PWR   B1000 UPL
            B1000 DM2   B1000 RPG   B1000 UTL

MEDIA ID: PATCH1002

Burroughs is pleased to announce the availability of Patch
Release 2 to the B1000 Mark 10.0 system software. Patch Release
2 contains only those files that have been updated since the
first patch release of the Mark 10.0 system software. The names
of the updated files and the patch numbers added to those files
are:

File Name	Patch Numbers	Style Number
BASIC	1	B1000 BAS
BNA/HSLIO	1-3	B1000 BNS
BNA/HSP	1-6	B1000 BNS
BNA/NSM	6-9	B1000 BNS
BNA/NSP	1-8	B1000 BNS
BNA/PLM	1-2	B1000 BNS
BNA/SIZEFILE	re-release	B1000 BNS
CANDE	4-5	B1000 CE1
CANDE/ANALYZER	1	B1000 CE1
CANDE/TEACH-FILE	Initial Release	B1000 CE1
CASSETTE/LOADER	2-3	B1000 UTL
CLEAR/START	re-release	B1000 UTL
COBOL	5-6	B1000 COB
COBOL74	10-20	B1000 CB1
COBOL74/INTERP1M	re-release	B1000 CB1
CODE/ANALYZER	1	B1000 UTL
COLDSTART/DISK	4-6	B1000 UTL
COLDSTART/TAPE	4	B1000 UTL
CREATE/ISAM	initial release	B1000 UTL
DISK/DUMP	2-3	B1000 UTL
DISKETTE/COPY	1-2	B1000 UTL

DISKMAP/UTILITY	2	B1000	UTL
DMPALL	2-5	B1000	UTL
DMS/DASDL	4-8	B1000	DM2
DMS/DBMAP	2-4	B1000	DM2
DMS/DECOMPILER	3-4	B1000	DM2
DMS/INQUIRY	5-9	B1000	DM1
DMS/REORG.READ	1	B1000	DM2
DMS/REORG.WRIT	5-7	B1000	DM2
DUMP/ANALYZER	4-12	B1000	UTL
FOR.INTRIN	re-release	B1000	FOR
FORTRAN	1	B1000	FOR
FORTRAN77	1-6	B1000	FR1
FORTRAN77/INTERP2M	re-release	B1000	FR1
FORTRAN77/INTRINSIC	re-release	B1000	FR1
GISMO	re-release	B1000	MP2
GISMO/DEBUG	re-release	B1000	MP2
GISMO/SA	re-release	B1000	UTL
HASP	4-5	B1000	HAS
HASP/MODIFIER	1-3	B1000	HAS
HASP/SPOOL	1-2	B1000	HAS
MCPII	42-159	B1000	MP2
MCPII/ANALYZER	2-4	B1000	UTL
MCPII/MICRO.MCP	re-release	B1000	MP2
MICRO.MCP/DEBUG	re-release	B1000	MP2
NDL/ADDRESS	re-release	B1000	NDL
NDL/DUMP	2	B1000	NDL
NDL/LIBRARY	re-release	B1000	NDL
NDL/MACRO	5-9	B1000	NDL
PACK/INIT	2-5	B1000	UTL
QWIKLOG	2-4	B1000	UTL
RJE3780	2-6	B1000	PWR
RPG	4-6	B1000	RPG
RSVP	1	B1000	BNS
SDL/XMAP	1	B1000	UPL
SDL.INTRIN/AGGREGATE	re-release	B1000	MP2
SDL.INTRIN/REMOVER	initial release	B1000	UTL
SMCS	3-7	B1000	SMC
SORT	1-2	B1000	SRT
SORT/UTILITY	2-5	B1000	SRT
SORT/VSORT	1-3	B1000	SRT
SSLOAD/MAKCAS	1-3	B1000	UTL
STANDALONE/DISK.DUMP	3-5	B1000	UTL
SYCOM	2-3	B1000	SYC
SYSTEM/BACKUP	1	B1000	UTL
SYSTEM/CONTROLLER	initial release	B1000	MP2
SYSTEM/COPY	3-7	B1000	MP2
SYSTEM/DISK.INIT	1-2	B1000	UTL
SYSTEM/ELOGOUT	1	B1000	UTL
SYSTEM/INIT	re-release	B1000	MP2
SYSTEM/IS.MAINT	1	B1000	UTL
SYSTEM/ISVERIFY	initial release	B1000	UTL
SYSTEM/LOGOUT	2	B1000	UTL
SYSTEM/MLFIRMWARE	initial release	B1000	MP2
SYSTEM/NIF	initial release	B1000	MP2

SYSTEM/ODT	7-13	B1000 MP2
TABS/BILLING	2-6	B1000 TAB
TABS/EXEC	1-2	B1000 TAB
TABS/HDWR	1	B1000 TAB
TABS/LOGOUT	2-4	B1000 TAB
TABS/UPDATE	1-3	B1000 TAB
TEXT/EDITOR	1	B1000 TE1

A description of the specific problem corrected by each patch is attached.

The MP2, SRT, and UTL files in this release are available on disk cartridge, disk pack and magnetic tape to all MCPII users. The patched version of the CLEAR/START, COLDSTART/DISK, COLDSTART/TAPE, DISK/DUMP, PACK/INIT, and STANDALONE/DISK.DUMP cassette utilties available on digital cassette to all B1710 and B1830 MCPII users. Only previously authorized users can obtain a copy of the other files.

Please complete and return the attached form if you wish to receive the product(s) described in this availability letter. Burroughs will provide Program Products on your media (other than cassettes) or on new chargeable media provided by Burroughs. There is a processing charge for copying products on customer supplied media. Media provided by Burroughs cannot be returned for credit.

Manager
Software Distribution Services
Planning and Logistics Group

Burroughs Transmittal

Date Shipped: 3-9-83

1 Program Product Identification

Style Number(s)
B1000 SYS

8-Digit Catalog Number(s)
3258 6679

Release Level
Mark 10.0

Program Product Name
B1000 SYSTEM SOFTWARE PATCH RELEASE 2

Attachment	Release Type	Product Type	Support Category	Oldest Op System level
[X] Yes [ ] No	[ ] New [X] Update [ ] Documentation Only	[X] System Software [ ] Application [ ] Other	[X] A [ ] B [ ] C	10.0

2 Media Supplied

Media I.D.	File Type	Media Type	Media I.D.	File Type	Media Type	Media I.D.	File Type	Media Type
PATCH1002	USL	42						
SYSTEM	POL	42						

Additional Information on Attached Sheet? [ ] Yes [X] No

3 System Type

System Type(s)
B1900/B1800/B1700/B1000

Availability Letter Page Count Announcement Letter Page Count
3 + 102 (Old Customers)   7 + 102 (Old Customers)
ANNou 15 + 102 (Internal only)   3 + 102 (New Customers)

4 Documentation

Is Documentation Being Released?	Does Documentation Contain Patch?	Doc No.	Page Count
[X] Yes [ ] No	[ ] Yes [X] No	N/A	102

A printed copy of the patch descriptions must go to all users with the availability letter.

5 Copyright

Is © required?	Patent Division Number
[ ] Yes [X] No	13947

6 Program Product Specifications

System Type	Date on Spec.	Form No./ Page Count	System Type	Date on Spec.	Form No./ Page Count
B1000 SYS	9/81	1125838 / 2			

Program Product Spec. Type [ ] Preliminary [X] Published

7 Manuals to be Released with Program Product

Date Available	Date on Manual	Form Number	Description
None			

Additional Information on Attached Sheet? [ ] Yes [X] No

8 Special Instructions for Media Duplication and/or Distribution

See attached media duplication instructions.

See attached distribution instructions.

Additional Information on Attached Sheet? [ ] Yes [X] No

9 Submitting Activity

Submitted by	Date	Phone	Cost Center	Dev/Act Center	Department Name
Richard Holmes	3-9-83	(805) 964-6881	6046	SABA	Software

Approved by	Date	Approved by	Corp. Prod. Mgr.	Date	Prod. Mgr. Phone
Don Edlin			Jerry Peterson Bentel		272-7594

10 — Product Assurance

Approved by	Date	Phone	Has Program Product been Announced by Industry Marketing? [ ] Yes [ ] No

11 Program Product Distribution

Date Received	Processed by	Date to Oper.	Date Distributed

1909991 (Rev. 4/81)

THE AVAILABILITY OF THIS PRODUCT SHOULD BE ANNOUNCED TO THE FOLLOWING:

[X] CUSTOMER THAT ARE CURRENTLY USING THIS PRODUCT

[X] ALL BURROUGHS SITES

[] ONLY BURROUGHS SITES

WITH MARKETING RESPONSIBILITY FOR THE FOLLOWING SYSTEM AND/OR
INDUSTRY TYPES:

SYSTEM TYPE	
[]	AE
[]	B80/90
[]	B700/800/900
[X]	B1000
[]	B2000/3000/4000
[]	B5000
[]	B7000
[]	B9138
[]	B9270
[]	DC
[]	RT
[]	S
[]	MT
[]	B5000

INDUSTRY TYPE	
[]	CONTRACTORS
[]	MANUFACTURING
[]	UTILITIES
[]	SERVICES
[]	WHOLESALE
[]	RETAIL
[]	BANKS
[]	THRIFT
[]	CREDIT UNIONS
[]	OTHER FINANCIAL
[]	HOTELS
[]	CLINICS
[]	HOSPITAL/NURSING HOMES
[]	EDUCATION
[]	GOVERNMENT
[]	MISCELLANEOUS

1.   Program Product Identification

<u>Style No</u> <u>Catalog #</u> <u>Program Product Name</u>

B1000MP2 3258 6679 MASTER CONTROL PROGRAM II
     MCPII (10.0.159)
     MCPII/MICRO.MCP (Version @10003737@)
     MICRO.MCP/DEBUG (Version @10003737@)
     GISMO (Version @10004242@)
     GISMO/DEBUG (Version @10004242@)
     SYSTEM/CONTROLLER (10.0.0)
     SYSTEM/INIT (Compile Date 03/01/82)
     SYSTEM/MLFIRMWARE (Creation Date 05/12/82)
     SYSTEM/NIF (Creation Date 05/14/82)
     SYSTEM/ODT (10.0.013)

B1000XMT 3258 7370 COMPLETE CASSETTE UTILITIES
     CLEAR/START (Compile date 08/13/81) CASSETTE
     COLDSTART/DISK (10.0.006)   CASSETTE
     COLDSTART/TAPE (10.0.004)   CASSETTE
     DISK/DUMP (10.0.003)   CASSETTE
     PACK/INIT (10.0.005)   CASSETTE
     STANDALONE/DISK.DUMP (10.0.005)   CASSETTE

B1030XMT 3258 7370 COMPLETE CASSETTE UTILITIES (B1830 ONLY)
     B1830 CLEAR/START (Compile date 08/13/81) CASSETTE
     B1830 COLDSTART/DISK (10.0.006)   CASSETTE
     B1830 COLDSTART/TAPE (10.0.004)   CASSETTE
     B1830 DISK/DUMP (10.0.003)   CASSETTE
     B1830 PACK/INIT (10.0.005)   CASSETTE
     B1830 STANDALONE/DISK.DUMP (10.0.005)   CASSETTE

B1000UTL 3258 7370 SYSTEM UTILITIES
     CASSETTE/LOADER (10.0.003)
     CODE/ANALYZER (10.0.001)
     COLDSTART/DISK (10.0.006)
     COLDSTART/TAPE (10.0.004)
     CREATE/ISAM (Compile date 08/20/82)
     DISK/DUMP (10.0.003)
     DISKETTE/COPY (10.0.002)
     DISKMAP/UTILITY (10.0.002)
     DMPALL (10.0.005)
     DOCUMENT/CREATEISAM (Creation date 07/07/82)
     DOCUMENT/ISVERIFY (Creation date 07/07/82)
     DUMP/ANALYZER (10.0.012)
     GISMO/SA (Version @10004242@)
     MCPII/ANALYZER (10.0.004)
     PACK/INIT (10.0.005)
     QWIKLOG (10.0.004)
     SDL.INTRIN/AGGREGATE (Creation Date 09/03/82)
     SDL.INTRIN/REMOVER (Compile Date 07/14/77)
     SSLOAD/MAKCAS (10.0.003)
     STANDALONE/DISK.DUMP (10.0.005)

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    SYSTEM/BACKUP (10.0.001)
    SYSTEM/COPY (10.0.007)
    SYSTEM/DISK.INIT (10.0.002)
    SYSTEM/ELOGOUT (10.0.001)
    SYSTEM/IS.MAINT (10.0.001)
    SYSTEM/ISVERIFY (Compile date 01/03/83)
    SYSTEM/LOGOUT (10.0.002)

B1000BAS  3258 6067  BASIC
    BASIC (10.0.001)

B1000BNS  2964 7541  BURROUGHS NETWORK ARCHITECTURE
    BNA/HSLIO (10.0.003)
    BNA/HSP (10.0.006)
    BNA/NSM (10.0.009)
    BNA/NSP (10.0.008)
    BNA/PLM (10.0.002)
    BNA/SIZEFILE (Creation Date 12/16/81)
    RSVP (10.0.001)

B1000CB1  3258 6166  ANSI 74 COBOL
    COBOL74 (10.0.020)
    COBOL74/INTERP1M (10/13/82)

B1000CE1  3258 6174  COMMAND AND EDIT (CANDE)
    CANDE (10.0.005)
    CANDE/ANALYZER (10.0.001)
    CANDE/TEACH-FILE (Creation date 07/24/81)

B1000COB  2814 3535  COBOL
    COBOL (10.0.006)

B1000DM1  3258 6232  DMS II INQUIRY
    DMS/INQUIRY (10.0.009)

B1000DM2  3258 6669  DMS II
    DMS/DASDL (10.0.008)
    DMS/DBMAP (10.0.004)
    DMS/DECOMPILER (10.0.004)
    DMS/REORG.READ (10.0.001)
    DMS/REORG.WRIT (10.0.007)

B1000FOR  3258 6273  FORTRAN
    FOR.INTRIN (Creation Date 11/22/82)
    FORTRAN (10.0.001)
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B1000FR1   3258 6299   FORTRAN 77
       FORTRAN77 (10.0.006)
       FORTRAN77/INTERP2M (Compile Date 11/12/82)
       FORTRAN77/INTRINSIC (Creation Date 12/16/82)

B1000HAS   3258 6364   HASP
       HASP (10.0.005)
       HASP/MODIFIER (10.0.003)
       HASP/SPOOL (10.0.002)

B1000NDL   3258 6752   NETWORK DEFINITION LANGUAGE
       NDL/ADDRESS (Creation Date 10/02/82)
       NDL/DUMP (10.0.002)
       NDL/LIBRARY (Creation Date 08/24/82)
       NDL/MACRO (10.0.009)

B1000PWR   3258 7065   REMOTE JOB ENTRY IBM3780
       RJE3780 (10.0.006)

B1000RPG   3258 7099   REPORT PROGRAM GENERATOR
       RPG (10.0.006)

B1000SMC   3258 7198   SYSTEMS COMMUNICATIONS MODULE
       DOCUMENT/SMCS (Creation date 12/01/82)
       SMCS (10.0.007)

B1000SRT   3258 7180   SYSTEM SORT
       SORT (10.0.002)
       SORT/UTILITY (10.0.005)
       SORT/VSORT (10.0.003)

B1000SYC   3258 7289   SYSTEMS COMMUNICATIONS MODULE
       SYCOM (10.0.003)

B1000TAB   3258 8741   TABS
       TABS/BILLING (10.0.006)
       TABS/EXEC (10.0.002
       TABS/HDWR (10.0.001)
       TABS/LOGOUT (10.0.004)
       TABS/UPDATE (10.0.003)

B1000TE1   3258 7362   TEXT EDITOR
       TEXT/EDITOR (10.0.001)

B1000UPL   3258 7362   USER PROGRAMMING LANGUAGE COMPILER

       SDL/XMAP (10.0.001)
```

SUBJECT: Availablity of Patch Release 2 to the B1000 Mark 10.0
             System Software

STYLE NO: B1000 BAS   B1000 FOR   B1000 SMC
             B1000 BNS   B1000 FR1   B1000 SRT
             B1000 CB1   B1000 HAS   B1000 SYC
             B1000 CE1   B1000 MP2   B1000 TAB
             B1000 COB   B1000 NDL   B1000 TE1
             B1000 DM1   B1000 PWR   B1000 UPL
             B1000 DM2   B1000 RPG   B1000 UTL

MEDIA ID: PATCH1002

Burroughs is pleased to announce the availability of Patch
Release 2 to the B1000 Mark 10.0 system software. Patch Release
2 contains only those files that have been updated since the
first patch release of the Mark 10.0 system software. The names
of the updated files and the patch numbers added to those files
are:

File Name	Patch Numbers	Style Number
BASIC	1	B1000 BAS
BNA/HSLIO	1-3	B1000 BNS
BNA/HSP	1-6	B1000 BNS
BNA/NSM	6-9	B1000 BNS
BNA/NSP	1-8	B1000 BNS
BNA/PLM	1-2	B1000 BNS
BNA/SIZEFILE	re-release	B1000 BNS
CANDE	4-5	B1000 CE1
CANDE/ANALYZER	1	B1000 CE1
CANDE/TEACH-FILE	Initial Release	B1000 CE1
CASSETTE/LOADER	2-3	B1000 UTL
CLEAR/START	re-release	B1000 UTL
COBOL	5-6	B1000 COB
COBOL74	10-20	B1000 CB1
COBOL74/INTERP1M	re-release	B1000 CB1
CODE/ANALYZER	1	B1000 UTL
COLDSTART/DISK	4-6	B1000 UTL
COLDSTART/TAPE	4	B1000 UTL
CREATE/ISAM	initial release	B1000 UTL
DISK/DUMP	2-3	B1000 UTL
DISKETTE/COPY	1-2	B1000 UTL

DISKMAP/UTILITY	2	B1000	UTL
DMPALL	2-5	B1000	UTL
DMS/DASDL	4-8	B1000	DM2
DMS/DBMAP	2-4	B1000	DM2
DMS/DECOMPILER	3-4	B1000	DM2
DMS/INQUIRY	5-9	B1000	DM1
DMS/REORG.READ	1	B1000	DM2
DMS/REORG.WRIT	5-7	B1000	DM2
DUMP/ANALYZER	4-12	B1000	UTL
FOR.INTRIN	re-release	B1000	FOR
FORTRAN	1	B1000	FOR
FORTRAN77	1-6	B1000	FR1
FORTRAN77/INTERP2M	re-release	B1000	FR1
FORTRAN77/INTRINSIC	re-release	B1000	FR1
GISMO	re-release	B1000	MP2
GISMO/DEBUG	re-release	B1000	MP2
GISMO/SA	re-release	B1000	UTL
HASP	4-5	B1000	HAS
HASP/MODIFIER	1-3	B1000	HAS
HASP/SPOOL	1-2	B1000	HAS
MCPII	42-159	B1000	MP2
MCPII/ANALYZER	2-4	B1000	UTL
MCPII/MICRO.MCP	re-release	B1000	MP2
MICRO.MCP/DEBUG	re-release	B1000	MP2
NDL/ADDRESS	re-release	B1000	NDL
NDL/DUMP	2	B1000	NDL
NDL/LIBRARY	re-release	B1000	NDL
NDL/MACRO	5-9	B1000	NDL
PACK/INIT	2-5	B1000	UTL
QWIKLOG	2-4	B1000	UTL
RJE3780	2-6	B1000	PWR
RPG	4-6	B1000	RPG
RSVP	1	B1000	BNS
SDL/XMAP	1	B1000	UPL
SDL.INTRIN/AGGREGATE	re-release	B1000	MP2
SDL.INTRIN/REMOVER	initial release	B1000	UTL
SMCS	3-7	B1000	SMC
SORT	1-2	B1000	SRT
SORT/UTILITY	2-5	B1000	SRT
SORT/VSORT	1-3	B1000	SRT
SSLOAD/MAKCAS	1-3	B1000	UTL
STANDALONE/DISK.DUMP	3-5	B1000	UTL
SYCOM	2-3	B1000	SYC
SYSTEM/BACKUP	1	B1000	UTL
SYSTEM/CONTROLLER	initial release	B1000	MP2
SYSTEM/COPY	3-7	B1000	MP2
SYSTEM/DISK.INIT	1-2	B1000	UTL
SYSTEM/ELOGOUT	1	B1000	UTL
SYSTEM/INIT	re-release	B1000	MP2
SYSTEM/IS.MAINT	1	B1000	UTL
SYSTEM/ISVERIFY	initial release	B1000	UTL
SYSTEM/LOGOUT	2	B1000	UTL
SYSTEM/MLFIRMWARE	initial release	B1000	MP2
SYSTEM/NIF	initial release	B1000	MP2

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SYSTEM/ODT               7-13      B1000 MP2
TABS/BILLING             2-6       B1000 TAB
TABS/EXEC                1-2       B1000 TAB
TABS/HDWR                1         B1000 TAB
TABS/LOGOUT              2-4       B1000 TAB
TABS/UPDATE              1-3       B1000 TAB
TEXT/EDITOR              1         B1000 TE1
```

A description of the specific problem corrected by each patch is attached.

The MP2, SRT, and UTL files in this release are available on disk cartridge, disk pack and magnetic tape to all MCPII users. The patched version of the CLEAR/START, COLDSTART/DISK, COLDSTART/TAPE, DISK/DUMP, PACK/INIT, and STANDALONE/DISK.DUMP cassette utilties available on digital cassette to all B1710 and B1830 MCPII users. Only previously authorized users can obtain a copy of the other files.

Please complete and return the attached form if you wish to receive the product(s) described in this availability letter. Burroughs will provide Program Products on your media (other than cassettes) or on new chargeable media provided by Burroughs. There is a processing charge for copying products on customer supplied media. Media provided by Burroughs cannot be returned for credit.

Manager
Software Distribution Services
Planning and Logistics Group

```
SUBJECT:    Announcement of Patch Release 2 to the B1000 Mark 10.0
            System Software

STYLE NO:   B1000 BAS        B1000 FOR        B1000 SMC
            B1000 BNS        B1000 FR1        B1000 SRT
            B1000 CB1        B1000 HAS        B1000 SYC
            B1000 CE1        B1000 MP2        B1000 TAB
            B1000 COB        B1000 NDL        B1000 TE1
            B1000 DM1        B1000 PWR        B1000 UPL
            B1000 DM2        B1000 RPG        B1000 UTL

MEDIA ID:   PATCH1002
```

Enclosed is Patch Release 2 for the current users of the B1000
Mark 10.0 system software. Patch Release 2 consists of
computer-readable media and a printed description of the problems
corrected by this release. The computer-readable media contains
the files in the following list that have been authorized and
ordered for your system.

File Name	Patch Numbers	Style Number
BASIC	1	B1000 BAS
BNA/HSLIO	1-3	B1000 BNS
BNA/HSP	1-6	B1000 BNS
BNA/NSM	6-9	B1000 BNS
BNA/NSP	1-8	B1000 BNS
BNA/PLM	1-2	B1000 BNS
BNA/SIZEFILE	re-release	B1000 BNS
CANDE	4-5	B1000 CE1
CANDE/ANALYZER	1	B1000 CE1
CANDE/TEACH-FILE	Initial Release	B1000 CE1
CASSETTE/LOADER	2-3	B1000 UTL
CLEAR/START	re-release	B1000 UTL
COBOL	5-6	B1000 COB
COBOL74	10-20	B1000 CB1
COBOL74/INTERP1M	re-release	B1000 CB1
CODE/ANALYZER	1	B1000 UTL
COLDSTART/DISK	4-6	B1000 UTL
COLDSTART/TAPE	4	B1000 UTL
CREATE/ISAM	initial release	B1000 UTL
DISK/DUMP	2-3	B1000 UTL
DISKETTE/COPY	1-2	B1000 UTL

DISKMAP/UTILITY	2	B1000	UTL
DMPALL	2-5	B1000	UTL
DMS/DASDL	4-8	B1000	DM2
DMS/DBMAP	2-4	B1000	DM2
DMS/DECOMPILER	3-4	B1000	DM2
DMS/INQUIRY	5-9	B1000	DM1
DMS/REORG.READ	1	B1000	DM2
DMS/REORG.WRIT	5-7	B1000	DM2
DUMP/ANALYZER	4-12	B1000	UTL
FOR.INTRIN	re-release	B1000	FOR
FORTRAN	1	B1000	FOR
FORTRAN77	1-6	B1000	FR1
FORTRAN77/INTERP2M	re-release	B1000	FR1
FORTRAN77/INTRINSIC	re-release	B1000	FR1
GISMO	re-release	B1000	MP2
GISMO/DEBUG	re-release	B1000	MP2
GISMO/SA	re-release	B1000	UTL
HASP	4-5	B1000	HAS
HASP/MODIFIER	1-3	B1000	HAS
HASP/SPOOL	1-2	B1000	HAS
MCPII	42-159	B1000	MP2
MCPII/ANALYZER	2-4	B1000	UTL
MCPII/MICRO.MCP	re-release	B1000	MP2
MICRO.MCP/DEBUG	re-release	B1000	MP2
NDL/ADDRESS	re-release	B1000	NDL
NDL/DUMP	2	B1000	NDL
NDL/LIBRARY	re-release	B1000	NDL
NDL/MACRO	5-9	B1000	NDL
PACK/INIT	2-5	B1000	UTL
QWIKLOG	2-4	B1000	UTL
RJE3780	2-6	B1000	PWR
RPG	4-6	B1000	RPG
RSVP	1	B1000	BNS
SDL/XMAP	1	B1000	UPL
SDL.INTRIN/AGGREGATE	re-release	B1000	MP2
SDL.INTRIN/REMOVER	initial release	B1000	UTL
SMCS	3-7	B1000	SMC
SORT	1-2	B1000	SRT
SORT/UTILITY	2-5	B1000	SRT
SORT/VSORT	1-3	B1000	SRT
SSLOAD/MAKCAS	1-3	B1000	UTL
STANDALONE/DISK.DUMP	3-5	B1000	UTL
SYCOM	2-3	B1000	SYC
SYSTEM/BACKUP	1	B1000	UTL
SYSTEM/CONTROLLER	initial release	B1000	MP2
SYSTEM/COPY	3-7	B1000	MP2
SYSTEM/DISK.INIT	1-2	B1000	UTL
SYSTEM/ELOGOUT	1	B1000	UTL
SYSTEM/INIT	re-release	B1000	MP2
SYSTEM/IS.MAINT	1	B1000	UTL
SYSTEM/ISVERIFY	initial release	B1000	UTL
SYSTEM/LOGOUT	2	B1000	UTL
SYSTEM/MLFIRMWARE	initial release	B1000	MP2
SYSTEM/NIF	initial release	B1000	MP2

```
SYSTEM/ODT                      7-13        B1000 MP2
TABS/BILLING                    2-6         B1000 TAB
TABS/EXEC                       1-2         B1000 TAB
TABS/HDWR                        1          B1000 TAB
TABS/LOGOUT                     2-4         B1000 TAB
TABS/UPDATE                     1-3         B1000 TAB
TEXT/EDITOR                      1          B1000 TE1
```

Use the procedure in attachment A to load the new GISMO, MCPII,
MCPII/MICRO.MCP, SDL.INTRIN/AGGREGATE, SYSTEM/COPY, SYSTEM/INIT,
and SYSTEM/ODT files to the system disk from the enclosed media.

Field Communication Forms regarding this release should be
submitted to your local Burroughs representative to be forwarded
to Product Assurance and Support at the Santa Barbara Programming
Center.

Manager
Software Distribution Services
Logistics and Planning Group

PROCEDURE TO INSTALL THE NEW OPERATING SYSTEM

The following is a suggested procedure for loading the new system
files. For more information on the Name Table, refer to the
B 1000 System Software Operation Guide, volume 2, form 1138542,
pages 5-3 through 5-6.

1. Determine the names of the GISMO, MCPII, MCPII/MICRO.MCP,
   SYSTEM/COPY, SYSTEM/INIT, and SYSTEM/ODT files currently
   running on the system, by using the WW keyboard command as
   follows:

           WW G/=;
           WW M/=;
           WW MM/=;
           WW CPY;
           WW N/=;
           WW O/=;

   The Name Table entries of concern are the G, M, MM, CPY, N,
   and ODT entries. In the following steps, it is assumed that
   the files in these entries have the names GISMO, MCPII,
   MCPII/MICRO.MCP, SYSTEM/COPY, SYSTEM/INIT, and SYSTEM/ODT,
   respectively. If the names are not the same, the different
   name may be substituted in the examples (such as
   substituting GISMO/DEBUG for GISMO).

2. Use the COPY command to make a copy of the current files,
   GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT,
   to files named OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP,
   OLD/SYSINIT, OLD/SYSODT, respectively, as follows:

           COPY GISMO AS OLD/GISMO,
             MCPII AS OLD/MCPII,
             MCPII/MICRO.MCP AS OLD/MICRO.MCP,
             SYSTEM/INIT AS OLD/SYSINIT,
             SYSTEM/ODT AS OLD/SYSODT,
             FROM DISK TO DISK;

3. Use the CM keyboard command to place the names of the
   current files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT,
   and SYSTEM/ODT into the experimental entries of the Name
   Table (as a precautionary measure) and the names of the
   copied files, OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP,
   OLD/SYSINIT, and OLD/SYSODT, into the standard entries of
   the Name Table, as follows:

```
CM GX GISMO;
CM MX MCPII;
CM MMX MCPII/MICRO.MCP;
CM NX SYSTEM/INIT;
CM ODX SYSTEM/ODT;
CM G OLD/GISMO;
CM M OLD/MCPII;
CM MM OLD/MCIRO.MCP;
CM N OLD/SYSINIT;
CM ODT OLD/SYSODT;
```

4. Perform a CLEAR/START operation. The currently running
    GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT
    files are now OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP,
    OLD/SDLINT1S or OLD/SDLINT1M, OLD/SYSINIT, and OLD/SYSODT,
    respectively.

5. Remove the now unused files, GISMO, MCPII, MCPII/MICRO.MCP,
    SYSTEM/INIT, and SYSTEM/ODT from the system disk, as
    follows:

```
CM GX PURGE;
CM MX PURGE;
CM MMX PURGE;
CM NX PURGE;
CM ODX PURGE;
REMOVE GISMO;
REMOVE MCPII;
REMOVE MCPII/MICRO.MCP;
REMOVE SYSTEM/INIT;
REMOVE SYSTEM/ODT;
```

6. Use the following COPY AND COMPARE command to copy the new
    files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and
    SYSTEM/ODT to the system disk from either the disk or tape
    media provided, as follows:

```
COPY AND COMPARE GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT,
    SYSTEM/ODT FROM <media> TO DISK;
```

7. Use the CM keyboard command to place the names of the
    current GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT,
    SYSTEM/ODT files into the experimental entries of the Name
    Table (as a precautionary measure) and the names of the new
    files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and
    SYSTEM/ODT, into the standard entries of the Name Table, as
    follows:

```
CM GX OLD/GISMO;
CM MX OLD/MCPII;
CM MMX OLD/MICRO.MCP;
CM NX OLD/SYSINIT;
CM ODX OLD/SYSODT;
CM G GISMO;
CM M MCPII;
CM MM MCPII/MICRO.MCP;
CM N SYSTEM/INIT;
CM ODT SYSTEM/ODT;
```

8. Use the following COPY AND COMPARE command to copy the new SYSTEM/COPY file as NEW/SYSCOPY, as follows:

```
COPY AND COMPARE SYSTEM/COPY AS NEW/SYSCOPY
     FROM <media> TO DISK;
```

9. Use the CM keyboard command to purge the SYSTEM/COPY file from the Name Table. Then use the CHANGE keyboard command to change SYSTEM/COPY to OLD/SYSCOPY, and NEW/SYSCOPY to SYSTEM/COPY. Then, use the CM keyboard command to place the new SYSTEM/COPY into the CPY Name Table entry, as follows:

```
CM CPY PURGE;
CHANGE SYSTEM/COPY TO OLD/SYSCOPY;
CHANGE NEW/SYSCOPY TO SYSTEM/COPY;
CM CPY SYSTEM/COPY;
```

10. Perform a CLEAR/START operation.

11. The now unused files, OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP, OLD/SYSCOPY, OLD/SYSINIT, and OLD/SYSODT, can now be removed from the SYSTEM disk, as follows:

```
CM GX PURGE;
CM MX PURGE;
CM MMX PURGE;
CM NX PURGE;
CM ODX PURGE;
REMOVE OLD/GISMO;
REMOVE OLD/MCPII;
REMOVE OLD/MICRO.MCP;
REMOVE OLD/SYSCOPY;
REMOVE OLD/SYSINIT;
REMOVE OLD/SYSODT;
```

12. If the system normally has files in the experimental Name Table entries (such as MICRO.MCP/DEBUG in the MMX entry, or GISMO/DEBUG in the GX entry), the files can be copied to the system disk and entered in the appropriate place of the Name Table with the CM keyboard command.

13. Use the following COPY AND COMPARE command to copy the new SDL.INTRIN/AGGREGATE file with a different name to the system disk, and to also copy the SDL.INTRIN/REMOVER program to the system disk, as follows:

        COPY AND COMPARE
                SDL.INTRIN/AGGREGATE AS SDL.INTRIN/AGG.NEW,
                SDL.INTRIN/REMOVER FROM <media> TO DISK;

14. Execute the SDL.INTRIN/REMOVER program to mark the current SDL.INTRIN/AGGREGATE file as an unrestricted file, as follows:

        EXECUTE SDL.INTRIN/REMOVER;

15. Change the name of the current SDL.INTRIN/AGGREGATE file to another name, and the name of the new SDL.INTRIN/AGGREGATE file to the proper name, as follows:

        CHANGE SDL.INTRIN/AGGREGATE TO SDL.INTRIN/AGG.OLD;
        CHANGE SDL.INTRIN/AGG.NEW TO SDL.INTRIN/AGGREGATE;

16. Execute the SDL.INTRIN/REMOVER program to mark the new SDL.INTRIN/AGGREGATE file as a restricted system file, as follows:

        EXECUTE SDL.INTRIN/REMOVER;

SUBJECT: Announcement of Patch Release 2 to the B1000 Mark 10.0
           System Software (Burroughs internal)

STYLE NO: B1000 BAS   B1000 FOR   B1000 SMC
           B1000 BNS   B1000 FR1   B1000 SRT
           B1000 CB1   B1000 HAS   B1000 SYC
           B1000 CE1   B1000 MP2   B1000 TAB
           B1000 COB   B1000 NDL   B1000 TE1
           B1000 DM1   B1000 PWR   B1000 UPL
           B1000 DM2   B1000 RPG   B1000 UTL

MEDIA ID: PATCH1002

The accompanying tapes for Burroughs Technical Support Managers
constitutes the second release of patches for the B1000 Mark 10.0
system software. Distribution of the patches is in the form of
card-image disk files on a library tape (labeled "PATCH1002").
The tape also contains the control decks used to create pseudo
decks. The pseudo decks execute the SYSTEM/PATCH program. The
recompiled object code files are the second library tape (labeled
"SYSTEM"). Also, included is a printed description of each of
the problems corrected by this release.

The card-image patch files and control decks are named as
follows:

Object Program Name	Patch Numbers	Patch File-id	Control File-id
BASIC	1	BASIC/100001	CONTROL/BASIC
BNA/HSLIO	1	BNAHSLIO/100001	CONTROL/BNAHSLIO
	2	BNAHSLIO/100002	
	3	BNAHSLIO/100003	
BNA/HSP	1	BNAHSP/100001	CONTROL/BNAHSP
	2	BNAHSP/100002	
	3	BNAHSP/100003	
	4	BNAHSP/100004	
	5	BNAHSP/100005	
	6	BNAHSP/100006	
BNA/NSM	6	BNANSM/100006	CONTROL/BNANSM
	7	BNANSM/100007	

```
                          8          BNANSM/100008
                          9          BNANSM/100009

     BNA/NSP              1          BNANSP/100001    CONTROL/BNANSP
                          2          BNANSP/100002
                          3          BNANSP/100003
                          4          BNANSP/100004
                          5          BNANSP/100005
                          6          BNANSP/100006
                          7          BNANSP/100007
                          8          BNANSP/100008

     BNA/PLM              1          BNAPLM/100001    CONTROL/BNAPLM
                          2          BNAPLM/100002

     CANDE                5          CANDE/100005     CONTROL/CANDE

     COBOL                5          COBOL/100005     CONTROL/COBOL
                          6          COBOL/100006

     COBOL74             10          COBOL74/100010   CONTROL/COBOL74
                         11          COBOL74/100011
                         12          COBOL74/100012
                         13          COBOL74/100013
                         14          COBOL74/100014
                         15          COBOL74/100015
                         16          COBOL74/100016
                         17          COBOL74/100017
                         18          COBOL74/100018
                         19          COBOL74/100019
                         20          COBOL74/100020

     CODE/ANALYZER        1          CODE.ANAL/100001 CONTROL/CODE.ANAL

     COLDSTART/DISK       4          CS.DISK/100004   CONTROL/CS.DISK
                          5          CS.DISK/100005
                          6          CS.DISK/100006

     COLDSTART/TAPE       4          CLDSTTAPE/100004 CONTROL/CLDSTTAPE

     DISK/DUMP            2          DISK.DUMP/100002 CONTROL/DISK.DUMP
                          3          DISK.DUMP/100003

     DISKMAP/UTILITY      2          DISKMAP/100002   CONTROL/DISKMAP

     DMPALL               2          DMPALL/100002    CONTROL/DMPALL
                          3          DMPALL/100003
                          4          DMPALL/100004
                          5          DMPALL/100005

     DMS/DASDL            4          DASDL/100004     CONTROL/DASDL
                          5          DASDL/100005
                          6          DASDL/100006
                          7          DASDL/100007
```

	8	DASDL/100008	
DMS/DBMAP	2	DBMAP/100002	CONTROL/DBMAP
	3	DBMAP/100003	
	4	DBMAP/100004	
DMS/DECOMPILER	3	DECOMPILER/100003	CONTROL/DECOMPILER
	4	DECOMPILER/100004	
DMS/INQUIRY	5	INQUIRY/100005	CONTROL/INQUIRY
	6	INQUIRY/100006	
	7	INQUIRY/100007	
	8	INQUIRY/100008	
	9	INQUIRY/100009	
DMS/REORG.READ	1	REORG.READ/100001	CONTROL/REORG.READ
DMS/REORG.WRIT	5	REORG.WRIT/100005	CONTROL/REORG.WRIT
	6	REORG.WRIT/100006	
	7	REORG.WRIT/100007	
DUMP/ANALYZER	4	DMPANALZE/100004	CONTROL/DMPANALZE
	5	DMPANALZE/100005	
	6	DMPANALZE/100006	
	7	DMPANALZE/100007	
	8	DMPANALZE/100008	
	9	DMPANALZE/100009	
	10	DMPANALZE/100010	
	11	DMPANALZE/100011	
	12	DMPANALZE/100012	
FORTRAN	1	FORTRAN/100001	CONTROL/FORTRAN
FORTRAN77	1	FORTRAN77/100001	CONTROL/FORTRAN77
	2	FORTRAN77/100002	
	3	FORTRAN77/100003	
	4	FORTRAN77/100004	
	5	FORTRAN77/100005	
	6	FORTRAN77/100006	
MCPII	42	MCPII/100042	CONTROL/MCPII
	43	MCPII/100043	
	44	MCPII/100044	
	45	MCPII/100045	
	46	MCPII/100046	
	47	MCPII/100047	
	48	MCPII/100048	
	49	MCPII/100049	
	50	MCPII/100050	
	51	MCPII/100051	
	52	MCPII/100052	
	53	MCPII/100053	
	54	MCPII/100054	
	55	MCPII/100055	

56	MCPII/100056
57	MCPII/100057
58	MCPII/100058
59	MCPII/100059
60	MCPII/100060
61	MCPII/100061
62	MCPII/100062
63	MCPII/100063
64	MCPII/100064
65	MCPII/100065
66	MCPII/100066
67	MCPII/100067
68	MCPII/100068
69	MCPII/100069
70	MCPII/100070
71	MCPII/100071
72	MCPII/100072
73	MCPII/100073
74	MCPII/100074
75	MCPII/100075
76	MCPII/100076
77	MCPII/100077
78	MCPII/100078
79	MCPII/100079
80	MCPII/100080
81	MCPII/100081
82	MCPII/100082
83	MCPII/100083
84	MCPII/100084
85	MCPII/100085
86	MCPII/100086
87	MCPII/100087
88	MCPII/100088
89	MCPII/100089
90	MCPII/100090
91	MCPII/100091
92	MCPII/100092
93	MCPII/100093
94	MCPII/100094
95	MCPII/100095
96	MCPII/100096
97	MCPII/100097
98	MCPII/100098
99	MCPII/100099
100	MCPII/100100
101	MCPII/100101
102	MCPII/100102
103	MCPII/100103
104	MCPII/100104
105	MCPII/100105
106	MCPII/100106
107	MCPII/100107
108	MCPII/100108
109	MCPII/100109

```
                 110        MCPII/100110
                 111        MCPII/100111
                 112        MCPII/100112
                 113        MCPII/100113
                 114        MCPII/100114
                 115        MCPII/100115
                 116        MCPII/100116
                 117        MCPII/100117
                 118        MCPII/100118
                 119        MCPII/100119
                 120        MCPII/100120
                 121        MCPII/100121
                 122        MCPII/100122
                 123        MCPII/100123
                 124        MCPII/100124
                 125        MCPII/100125
                 126        MCPII/100126
                 127        MCPII/100127
                 128        MCPII/100128
                 129        MCPII/100129
                 130        MCPII/100130
                 131        MCPII/100131
                 132        MCPII/100132
                 133        MCPII/100133
                 134        MCPII/100134
                 135        MCPII/100135
                 136        MCPII/100136
                 137        MCPII/100137
                 138        MCPII/100138
                 139        MCPII/100139
                 140        MCPII/100140
                 141        MCPII/100141
                 142        MCPII/100142
                 143        MCPII/100153
                 144        MCPII/100154
                 145        MCPII/100155
                 146        MCPII/100156
                 147        MCPII/100157
                 148        MCPII/100158
                 149        MCPII/100159
                 150        MCPII/100150
                 151        MCPII/100151
                 152        MCPII/100152
                 153        MCPII/100153
                 154        MCPII/100154
                 155        MCPII/100155
                 156        MCPII/100156
                 157        MCPII/100157
                 158        MCPII/100158
                 159        MCPII/100159

MCPII/ANALYZER       2        MCPANALYZE/100002   CONTROL/MCPANALYZE
                     3        MCPANALYZE/100003
                     4        MCPANALYZE/100004
```

PACK/INIT	2	PACK.INIT/100002	CONTROL/PACK.INIT
	3	PACK.INIT/100003	
	4	PACK.INIT/100004	
	5	PACK.INIT/100005	
QWIKLOG	2	QWIKLOG/100002	CONTROL/QWIKLOG
	3	QWIKLOG/100003	
	4	QWIKLOG/100004	
RJE3780	2	RJE3780/100002	CONTROL/RJE3780
	3	RJE3780/100003	
	4	RJE3780/100004	
	5	RJE3780/100005	
	6	RJE3780/100006	
RPG	4	RPG/100004	CONTROL/RPG
	5	RPG/100005	
	6	RPG/100006	
RSVP	1	RSVP/100001	CONTROL/RSVP
SDL/XMAP	1	SDLXMAP/100001	CONTROL/SDLXMAP
SORT	1	SORT/100001	CONTROL/SORT
	2	SORT/100002	
SORT/UTILITY	2	SORTUTIL/100002	CONTROL/SORTUTIL
	3	SORTUTIL/100003	
	4	SORTUTIL/100004	
	5	SORTUTIL/100005	
SORT/VSORT	1	SORTVSORT/100001	CONTROL/SORTVSORT
	2	SORTVSORT/100002	
	3	SORTVSORT/100003	
SSLOAD/MAKCAS	1	SSLD.MAKCS/100001	CONTROL/SSLD.MAKCS
	2	SSLD.MAKCS/100002	
	3	SSLD.MAKCS/100003	
STANDALONE/DISK.DUMP	3	SA.DSKDUMP/100003	CONTROL/SA.DSKDUMP
	4	SA.DSKDUMP/100004	
	5	SA.DSKDUMP/100005	
SYSTEM/BACKUP	1	SYSBACKUP/100001	CONTROL/SYSBACKUP
SYSTEM/COPY	3	SYSCOPY/100003	CONTROL/SYSCOPY
	5	SYSCOPY/100005	
	4	SYSCOPY/100004	
	5	SYSCOPY/100005	
	6	SYSCOPY/100006	
	7	SYSCOPY/100007	
SYSTEM/DISK.INIT	1	SYSDSKINIT/100001	CONTROL/SYSDSKINIT

```
                        2          SYSDSKINIT/100002

SYSTEM/ELOGOUT          1          SYSELOGOUT/100001    CONTROL/SYSELOGOUT

SYSTEM/IS.MAINT         1          IS.MAINT/100001      CONTROL/IS.MAINT

SYSTEM/LOGOUT           2          SYSLOGOUT/100002     CONTROL/SYSLOGOUT

SYSTEM/ODT              7          SYSODT/100007        CONTROL/SYSODT
                        8          SYSODT/100008
                        9          SYSODT/100009
                       10          SYSODT/100010
                       11          SYSODT/100011
                       12          SYSODT/100012
                       13          SYSODT/100013

SYSTEM/PATCH            2          SYSPATCH/100002      CONTROL/SYSPATCH

TABS/BILLING            2          TABS.BILL/100002     CONTROL/TABS.BILL
                        3          TABS.BILL/100003
                        4          TABS.BILL/100004
                        5          TABS.BILL/100005
                        6          TABS.BILL/100006

TABS/EXEC               1          TABS.EXEC/100001     CONTROL/TABS.EXEC
                        2          TABS.EXEC/100002

TABS/HDWR               1          TABS.HDWR/100001     CONTROL/TABS.HDWR

TABS/LOGOUT             2          TABS.LGOUT/100002    CONTROL/TABS.LGOUT
                        3          TABS.LGOUT/100003
                        4          TABS.LGOUT/100004

TABS/UPDATE             1          TABS.UPDATE/100001 CONTROL/TABS.UPDAT
                        2          TABS.UPDATE/100002
                        3          TABS.UPDATE/100003
```

The following procedure recompiles the object programs.

1. Load the card-image patch files from the patch release #1
   tape to a user disk labeled "PATCH100" as follows:

        COPY & COMPARE =/= FROM PATCH1001(KIND=TAPE) TO PATCH100(KIND=DISK

2. Load the card-image patch files and CONTROL files from the
   patch release #2 tape to a user disk labeled "PATCH100" as
   follows:

        COPY & COMPARE =/= FROM PATCH1002(KIND=TAPE) TO PATCH100(KIND=DISK

3. Load the appropriate source files to the PATCH100 user disk
   from the Mark 10.0 source tapes labeled "SOURCE1",
   "SOURCE2", "SOURCE3", "SOURCE4", and "SOURCE5". The
   following source files are required:

4. Execute the SYSTEM/LDCONTROL program with the following command:

        LD; FILE CARD.IN NAME PATCH100/CONTROL/<file-id> DISK DEFAULT;

    The file-id is the control file name of the software to be patched.

5. Activate the pseudo reader with the following command:

        RN 1;

Once the pseudo reader is activated, the SYSTEM/PATCH program goes to beginning of job. The SYSTEM/PATCH program merges the patch file(s) with the source file. These patches are specified to the SYSTEM/PATCH program by the INCLUDE statement in the control file. Upon completion, the SYSTEM/PATCH program initiates the compile of the object program as specified in the control file.

Each control file consists of an execute statement and data for the SYSTEM/PATCH program. The data to the SYSTEM/PATCH program includes the compile statement and the name of the patch files to use. The INCLUDE statement(s) designate the patch files which are merged with the original source file for the subsequent compilation. The naming convention used for each patch file is as follows:

        <file-id>/100nnn

The file-id is the software name. 100nnn represents the release patch number where 100 is the Mark 10.0 system software release level and nnn is the patch number.

Use the procedure in attachment A to load the new GISMO, MCPII, MCPII/MICRO.MCP, SDL.INTRIN/AGGREGATE, SYSTEM/COPY, SYSTEM/INIT, and SYSTEM/ODT files to the system disk from the enclosed media.

The patch decks for certain recompiled programs are not included on the tape as separate files. The patches are, however, part of the updated source file. The object and source files are re-released as follows:

```
SOURCE/BASIC
SOURCE/BNAHSLIO
SOURCE/BNAHSP
SOURCE/BNANSM
SOURCE/BNANSP
SOURCE/BNAPLM
SOURCE/CLDSTTAPE
SOURCE/COBLB
SOURCE/COBOL
SOURCE/COB74LB
SOURCE/COBOL74
SOURCE/CODE.ANAL
SOURCE/CS.DISK
SOURCE/DASDL
SOURCE/DBMAP
SOURCE/DECOMPILER
SOURCE/DISK.DUMP
SOURCE/DISKMAP
SOURCE/DMPALL
SOURCE/DMPANALZE
SOURCE/FORTRAN
SOURCE/FORTRAN77
SOURCE/INQUIRY
SOURCE/IS.MAINT
SOURCE/MCPANALYZE
SOURCE/MCPII
SOURCE/PACK.INIT
SOURCE/QWIKLOG
SOURCE/REORG.READ
SOURCE/REORG.WRIT
SOURCE/RJE3780
SOURCE/RPG
SOURCE/RSVP
SOURCE/SA.DSKDUMP
SOURCE/SDLXMAP
SOURCE/SORT
SOURCE/SORTUTIL
SOURCE/SORTVSORT
SOURCE/SSLD.MAKCS
SOURCE/SYSBACKUP
SOURCE/SYSCOPY
SOURCE/SYSDSKINIT
SOURCE/SYSELOGOUT
SOURCE/SYSLOGOUT
SOURCE/SYSODT
SOURCE/SYSPATCH
SOURCE/TABS.BILL
SOURCE/TABS.EXEC
SOURCE/TABS.HDWR
SOURCE/TABS.LOGOUT
SOURCE/TABS.UPDAT
```

Object-Program/ Data-File Name	Source File-id
BNA/SIZEFILE	(re-released)
CANDE	SOURCE/CANDE
CANDE/ANALYZER	SOURCE/C.ANALYZER
CANDE/TEACH-FILE	(initial release)
CASSETTE/LOADER	SOURCE/CAS.LOADER
CLEAR/START	SOURCE/CLEARSTART
COBOL74/INTERP1M	SOURCE/C74INTERP
CREATE/ISAM	(initial release)
DISKETTE/COPY	SOURCE/DISKET.CPY
FOR.INTRIN	SOURCE/FOR.INTRIN
FORTRAN77/INTER2M	SOURCE/F77INTERP
FORTRAN77/INTRINSICS	SOURCE/F77INTRIN
	SOURCE/F77COMLIB
GISMO	SOURCE/GISMO
GISMO/DEBUG	SOURCE/GISMO
GISMO/SA	SOURCE/GISMO
HASP	SOURCE/HASP
HASP/MODIFIER	SOURCE/MODIFIER
HASP/SPOOL	SOURCE/SPOOL
MCPII/MICRO.MCP	SOURCE/MICRO.MCP
MICRO.MCP/DEBUG	SOURCE/MICRO.MCP
NDL/ADDRESS	(re-released)
NDL/DUMP	SOURCE/NDLDUMP
NDL/LIBRARY	----
NDL/MACRO	SOURCE/NDLMACRO
SDL.INTRIN/#0000004	SOURCE/SDLIT04
SDL.INTRIN/#0000005	SOURCE/SDLIT05
SDL.INTRIN/AGGREGATE	----
SMCS	SOURCE/SMCS
SYCOM	SOURCE/SYCOM
SYSTEM/CONTROLLER	(initial release)
SYSTEM/INIT	SOURCE/SYSINIT
SYSTEM/ISVERIFY	(initial release)
SYSTEM/MLFIRMWARE	(initial release)
SYSTEM/NIF	(initial release)
TEXT/EDITOR	SOURCE/TEXTEDITOR

Field Communication Forms regarding this patch release should be
sent to Product Assurance and Support at the Santa Barbara
Programming Center at the following address:

Burroughs Corporation
B1000 Software Support
6300 Hollister Avenue
Goleta, California 93117

Manager
Software Distribution Services
Logistics and Planning Group

PROCEDURE TO INSTALL THE NEW OPERATING SYSTEM

The following is a suggested procedure for loading the new system files. For more information on the Name Table, refer to the B 1000 System Software Operation Guide, volume 2, form 1138542, pages 5-3 through 5-6.

1. Determine the names of the GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/COPY, SYSTEM/INIT, and SYSTEM/ODT files currently running on the system, by using the WW keyboard command as follows:

            WW G/=;
            WW M/=;
            WW MM/=;
            WW CPY;
            WW N/=;
            WW O/=;

    The Name Table entries of concern are the G, M, MM, CPY, N, and ODT entries. In the following steps, it is assumed that the files in these entries have the names GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/COPY, SYSTEM/INIT, and SYSTEM/ODT, respectively. If the names are not the same, the different name may be substituted in the examples (such as substituting GISMO/DEBUG for GISMO).

2. Use the COPY command to make a copy of the current files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT, to files named OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP, OLD/SYSINIT, OLD/SYSODT, respectively, as follows:

            COPY GISMO AS OLD/GISMO,
               MCPII AS OLD/MCPII,
               MCPII/MICRO.MCP AS OLD/MICRO.MCP,
               SYSTEM/INIT AS OLD/SYSINIT,
               SYSTEM/ODT AS OLD/SYSODT,
               FROM DISK TO DISK;

3. Use the CM keyboard command to place the names of the current files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT into the experimental entries of the Name Table (as a precautionary measure) and the names of the copied files, OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP, OLD/SYSINIT, and OLD/SYSODT, into the standard entries of the Name Table, as follows:

```
CM GX GISMO;
CM MX MCPII;
CM MMX MCPII/MICRO.MCP;
CM NX SYSTEM/INIT;
CM ODX SYSTEM/ODT;
CM G OLD/GISMO;
CM M OLD/MCPII;
CM MM OLD/MCIRO.MCP;
CM N OLD/SYSINIT;
CM ODT OLD/SYSODT;
```

4. Perform a CLEAR/START operation. The currently running GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT files are now OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP, OLD/SDLINT1S or OLD/SDLINT1M, OLD/SYSINIT, and OLD/SYSODT, respectively.

5. Remove the now unused files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT from the system disk, as follows:

```
CM GX PURGE;
CM MX PURGE;
CM MMX PURGE;
CM NX PURGE;
CM ODX PURGE;
REMOVE GISMO;
REMOVE MCPII;
REMOVE MCPII/MICRO.MCP;
REMOVE SYSTEM/INIT;
REMOVE SYSTEM/ODT;
```

6. Use the following COPY AND COMPARE command to copy the new files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT to the system disk from either the disk or tape media provided, as follows:

```
COPY AND COMPARE GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT,
     SYSTEM/ODT FROM <media> TO DISK;
```

7. Use the CM keyboard command to place the names of the current GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, SYSTEM/ODT files into the experimental entries of the Name Table (as a precautionary measure) and the names of the new files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT, into the standard entries of the Name Table, as follows:

```
CM GX OLD/GISMO;
CM MX OLD/MCPII;
CM MMX OLD/MICRO.MCP;
CM NX OLD/SYSINIT;
CM ODX OLD/SYSODT;
CM G GISMO;
CM M MCPII;
CM MM MCPII/MICRO.MCP;
CM N SYSTEM/INIT;
CM ODT SYSTEM/ODT;
```

8. Use the following COPY AND COMPARE command to copy the new
    SYSTEM/COPY file as NEW/SYSCOPY, as follows:

```
COPY AND COMPARE SYSTEM/COPY AS NEW/SYSCOPY
     FROM <media> TO DISK;
```

9. Use the CM keyboard command to purge the SYSTEM/COPY file
    from the Name Table. Then use the CHANGE keyboard command
    to change SYSTEM/COPY to OLD/SYSCOPY, and NEW/SYSCOPY to
    SYSTEM/COPY. Then, use the CM keyboard command to place the
    new SYSTEM/COPY into the CPY Name Table entry, as follows:

```
CM CPY PURGE;
CHANGE SYSTEM/COPY TO OLD/SYSCOPY;
CHANGE NEW/SYSCOPY TO SYSTEM/COPY;
CM CPY SYSTEM/COPY;
```

10. Perform a CLEAR/START operation.

11. The now unused files, OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP,
    OLD/SYSCOPY, OLD/SYSINIT, and OLD/SYSODT, can now be removed
    from the SYSTEM disk, as follows:

```
CM GX PURGE;
CM MX PURGE;
CM MMX PURGE;
CM NX PURGE;
CM ODX PURGE;
REMOVE OLD/GISMO;
REMOVE OLD/MCPII;
REMOVE OLD/MICRO.MCP;
REMOVE OLD/SYSCOPY;
REMOVE OLD/SYSINIT;
REMOVE OLD/SYSODT;
```

12. If the system normally has files in the experimental Name
    Table entries (such as MICRO.MCP/DEBUG in the MMX entry, or
    GISMO/DEBUG in the GX entry), the files can be copied to the
    system disk and entered in the appropriate place of the Name
    Table with the CM keyboard command.

13. Use the following COPY AND COMPARE command to copy the new
    SDL.INTRIN/AGGREGATE file with a different name to the
    system disk, and to also copy the SDL.INTRIN/REMOVER program
    to the system disk, as follows:

>   COPY AND COMPARE
>   SDL.INTRIN/AGGREGATE AS SDL.INTRIN/AGG.NEW,
>   SDL.INTRIN/REMOVER FROM <media> TO DISK;

14. Execute the SDL.INTRIN/REMOVER program to mark the current
    SDL.INTRIN/AGGREGATE file as an unrestricted file, as
    follows:

>   EXECUTE SDL.INTRIN/REMOVER;

15. Change the name of the current SDL.INTRIN/AGGREGATE file to
    another name, and the name of the new SDL.INTRIN/AGGREGATE
    file to the proper name, as follows:

>   CHANGE SDL.INTRIN/AGGREGATE TO SDL.INTRIN/AGG.OLD;
>   CHANGE SDL.INTRIN/AGG.NEW TO SDL.INTRIN/AGGREGATE;

16. Execute the SDL.INTRIN/REMOVER program to mark the new
    SDL.INTRIN/AGGREGATE file as a restricted system file, as
    follows:

>   EXECUTE SDL.INTRIN/REMOVER;

SUBJECT: Announcement of the B1000 Mark 10.0.2 System Software Release

STYLE NO: B1000 SYS

MEDIA ID: SYSTEM

Enclosed are the B1000 cassette tapes and either user disk(s) or library tape(s) that represent the current Mark 10.0 system software release for new B1000 users. This release package contains all the updated program products distributed with patch release 2 to the Mark 10.0 system software. The release consists of:

1. SYSTEM
   – A magnetic tape or user disk(s) containing the full complement of system software ordered.

2. CLEAR/START
   – A cassette tape containing the routine necessary to clear start the system.

3. COLDSTART/DISK
   – A cassette tape containing the routine necessary to cold start the system from a disk cartridge or disk pack.

4. COLDSTART/TAPE
   – A cassette tape containing the routine necessary to cold start the system from a library tape.

5. DISK/DUMP
   – A cassette tape containing the routine necessary to copy one disk cartridge or pack to another on a sector by sector basis.

6. CART/INIT
   – A cassette tape containing the routine necessary to initialize a disk cartridge.

7. PACK/INIT
   – A cassette tape containing the routine necessary to initialize a disk pack.

8. STANDALONE/INTERCHANGE - A cassette tape containing the routine
                            necessary to translate a disk pack to
                            a standard interchange mode or back to
                            a native B1000 mode.

9. STANDALONE/DISK.DUMP   - A cassette tape containing the routine
                            necessary to copy one disk cartridge or
                            pack to another on a file by file basis.

Information concerning the changes made to the B1000 system
software for the Mark 10.0 release is in the System Notes. The
System Notes are contained in printer backup disk files named
DOCUMENT/SYSNOTE1 and DOCUMENT/SYSNOTE2 distributed with the Mark
10.0 system software.

The System Notes and up to 23 System Note supplements are
distributed with the Mark 10.0 system software. The System Note
supplements are described in the System Notes and are distributed
to licensed recipients of the appropriate program product(s).
These printer backup disk files can be printed with the
SYSTEM/BACKUP program using the PB input message. To print the
printer backup files, the Mark 9.1 or Mark 10.0 system software
is required.

The printer backup files contain both upper- and lower-case
characters. Therefore, either a 96-character printer is required
or the lower-case characters must be translated to upper-case
characters.

For B1000 systems on the Mark 9.1 release, a utility program
named TRANSLATE/BACKUP is provided to translate the files from
lower- to upper-case characters. Since the translation is done
in place on the disk, if it is desirable that the lower-case
version be saved, a copy of the original backup file should be
saved. When executing the TRANSLATE/BACKUP program, a FILE
statement must be used to equate the program's internal file name
to the name of the printer backup file to be translated. For
example:

    EXECUTE TRANSLATE/BACKUP FILE BACKUP NAME DOCUMENT/SYSNOTE1;

For B1000 systems on the Mark 10.0 release, use the new UPPER
option in the PB input message to cause the lower-case characters
to be converted to upper-case characters before each line is
printed. For example:

    PB DOCUMENT/SYSNOTE1 UPPER SAVE;

When the Mark 10.0 release is received, a cold-start operation
must be performed to copy the basic system software files from
the enclosed media to a system disk. The cold-start operation is
performed using the appropriate Mark 10.0 COLDSTART cassette and
the procedures documented in volume 2 of the B1000 Systems System
Software Operation Guide, form number 1108966.

Field Communication Forms regarding this release should be
submitted to your local Burroughs representative to be forwarded
to Product Assurance and Support at the Santa Barbara Programming
Center.

Manager
Software Distribution Services
Planning and Logistics Group

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The following is a suggested procedure for loading the new system
files. For more information on the Name Table, refer to the
B 1000 System Software Operation Guide, volume 2, form 1138542,
pages 5-3 through 5-6.

1. Determine the names of the GISMO, MCPII, MCPII/MICRO.MCP,
    SYSTEM/COPY, SYSTEM/INIT, and SYSTEM/ODT files currently
    running on the system, by using the WW keyboard command as
    follows:

            WW G/=;
            WW M/=;
            WW MM/=;
            WW CPY;
            WW N/=;
            WW O/=;

    The Name Table entries of concern are the G, M, MM, CPY, N,
    and ODT entries. In the following steps, it is assumed that
    the files in these entries have the names GISMO, MCPII,
    MCPII/MICRO.MCP, SYSTEM/COPY, SYSTEM/INIT, and SYSTEM/ODT,
    respectively. If the names are not the same, the different
    name may be substituted in the examples (such as
    substituting GISMO/DEBUG for GISMO).

2. Use the COPY command to make a copy of the current files,
    GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT,
    to files named OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP,
    OLD/SYSINIT, OLD/SYSODT, respectively, as follows:

            COPY GISMO AS OLD/GISMO,
              MCPII AS OLD/MCPII,
              MCPII/MICRO.MCP AS OLD/MICRO.MCP,
              SYSTEM/INIT AS OLD/SYSINIT,
              SYSTEM/ODT AS OLD/SYSODT,
              FROM DISK TO DISK;

3. Use the CM keyboard command to place the names of the
    current files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT,
    and SYSTEM/ODT into the experimental entries of the Name
    Table (as a precautionary measure) and the names of the
    copied files, OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP,
    OLD/SYSINIT, and OLD/SYSODT, into the standard entries of
    the Name Table, as follows:

```
CM GX GISMO;
CM MX MCPII;
CM MMX MCPII/MICRO.MCP;
CM NX SYSTEM/INIT;
CM ODX SYSTEM/ODT;
CM G OLD/GISMO;
CM M OLD/MCPII;
CM MM OLD/MCIRO.MCP;
CM N OLD/SYSINIT;
CM ODT OLD/SYSODT;
```

4. Perform a CLEAR/START operation. The currently running
    GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and SYSTEM/ODT
    files are now OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP,
    OLD/SDLINT1S or OLD/SDLINT1M, OLD/SYSINIT, and OLD/SYSODT,
    respectively.

5. Remove the now unused files, GISMO, MCPII, MCPII/MICRO.MCP,
    SYSTEM/INIT, and SYSTEM/ODT from the system disk, as
    follows:

```
CM GX PURGE;
CM MX PURGE;
CM MMX PURGE;
CM NX PURGE;
CM ODX PURGE;
REMOVE GISMO;
REMOVE MCPII;
REMOVE MCPII/MICRO.MCP;
REMOVE SYSTEM/INIT;
REMOVE SYSTEM/ODT;
```

6. Use the following COPY AND COMPARE command to copy the new
    files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and
    SYSTEM/ODT to the system disk from either the disk or tape
    media provided, as follows:

```
COPY AND COMPARE GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT,
    SYSTEM/ODT FROM <media> TO DISK;
```

7. Use the CM keyboard command to place the names of the
    current GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT,
    SYSTEM/ODT files into the experimental entries of the Name
    Table (as a precautionary measure) and the names of the new
    files, GISMO, MCPII, MCPII/MICRO.MCP, SYSTEM/INIT, and
    SYSTEM/ODT, into the standard entries of the Name Table, as
    follows:

```
CM GX OLD/GISMO;
CM MX OLD/MCPII;
CM MMX OLD/MICRO.MCP;
CM NX OLD/SYSINIT;
CM ODX OLD/SYSODT;
CM G GISMO;
CM M MCPII;
CM MM MCPII/MICRO.MCP;
CM N SYSTEM/INIT;
CM ODT SYSTEM/ODT;
```

8. Use the following COPY AND COMPARE command to copy the new
    SYSTEM/COPY file as NEW/SYSCOPY, as follows:

```
COPY AND COMPARE SYSTEM/COPY AS NEW/SYSCOPY
    FROM <media> TO DISK;
```

9. Use the CM keyboard command to purge the SYSTEM/COPY file
    from the Name Table. Then use the CHANGE keyboard command
    to change SYSTEM/COPY to OLD/SYSCOPY, and NEW/SYSCOPY to
    SYSTEM/COPY. Then, use the CM keyboard command to place the
    new SYSTEM/COPY into the CPY Name Table entry, as follows:

```
CM CPY PURGE;
CHANGE SYSTEM/COPY TO OLD/SYSCOPY;
CHANGE NEW/SYSCOPY TO SYSTEM/COPY;
CM CPY SYSTEM/COPY;
```

10. Perform a CLEAR/START operation.

11. The now unused files, OLD/GISMO, OLD/MCPII, OLD/MICRO.MCP,
    OLD/SYSCOPY, OLD/SYSINIT, and OLD/SYSODT, can now be removed
    from the SYSTEM disk, as follows:

```
CM GX PURGE;
CM MX PURGE;
CM MMX PURGE;
CM NX PURGE;
CM ODX PURGE;
REMOVE OLD/GISMO;
REMOVE OLD/MCPII;
REMOVE OLD/MICRO.MCP;
REMOVE OLD/SYSCOPY;
REMOVE OLD/SYSINIT;
REMOVE OLD/SYSODT;
```

12. If the system normally has files in the experimental Name
    Table entries (such as MICRO.MCP/DEBUG in the MMX entry, or
    GISMO/DEBUG in the GX entry), the files can be copied to the
    system disk and entered in the appropriate place of the Name
    Table with the CM keyboard command.

13. Use the following COPY AND COMPARE command to copy the new
    SDL.INTRIN/AGGREGATE file with a different name to the
    system disk, and to also copy the SDL.INTRIN/REMOVER program
    to the system disk, as follows:

> COPY AND COMPARE
>   SDL.INTRIN/AGGREGATE AS SDL.INTRIN/AGG.NEW,
>   SDL.INTRIN/REMOVER FROM <media> TO DISK;

14. Execute the SDL.INTRIN/REMOVER program to mark the current
    SDL.INTRIN/AGGREGATE file as an unrestricted file, as
    follows:

> EXECUTE SDL.INTRIN/REMOVER;

15. Change the name of the current SDL.INTRIN/AGGREGATE file to
    another name, and the name of the new SDL.INTRIN/AGGREGATE
    file to the proper name, as follows:

> CHANGE SDL.INTRIN/AGGREGATE TO SDL.INTRIN/AGG.OLD;
> CHANGE SDL.INTRIN/AGG.NEW TO SDL.INTRIN/AGGREGATE;

16. Execute the SDL.INTRIN/REMOVER program to mark the new
    SDL.INTRIN/AGGREGATE file as a restricted system file, as
    follows:

> EXECUTE SDL.INTRIN/REMOVER;

BASIC Patch #1   (Compile Date: 02/26/82)

This patch corrects the following two problems:

1. A program aborted with an INVALID SUBSCRIPT message when a
    large number of IMAGE statements was specified.
    FCF 053-0145-010682

2. The incorrect syntax error message: TO MANY FORWARD
    REFERENCES was generated when more than 128 forward
    references were specified. A forward reference occurs when
    one statement references another statement at a higher
    numbered line. For example:

        10 GO TO 20

    The number of forward references allowed in a BASIC program
    is now unlimited.

BNA/HSLIO Patch #1   (Compile Date: 09/29/82)

With this patch, the SYSTEM/BACKUP program no longer aborts when
attempting to transfer a printer backup file to a remote BNA host
by way of the PB <file-name> HOSTNAME <remote-BNA-host> command.

BNA/HSLIO Patch #2   (Compile Date: 09/29/82)

With this patch, the BNA/HSLIO program now correctly handles
spacing operations for a printer file.

BNA/HSLIO Patch #3   (Compile Date: 09/29/82)

With this patch, the following file attributes have been added
and can only be inquired and not set.

    AREAADDRESS
    AREAALLOCATED
    FAMILYINDEX

BNA/HSP Patch #1   (Compile Date: 12/14/82)

With this patch the BNA/HSP program the format of the
VIRTUAL_CONNECT_REQUEST and the VIRTUAL_CONNECT_REPLY messages
(type 17) is enhanced to include the station name, remote host
name, and the remote node address. This allows a Message Control
System (MCS) to perform better security checking when determining
whether a VIRTUAL_CONNECT_REQUEST message should be approved or
denied. The following is the new format for the

VIRTUAL_CONNECT_REQUEST and the VIRTUAL_CONNECT_REPLY messages:

```
VIRTUAL_CONNECT_MESSAGE_FORMAT
        MESSAGETYPE             CHARACTER (02),
        VARIANT                 CHARACTER (01),
        LSN                     CHARACTER (03),
        APPROVEDENY             CHARACTER (01),
        DENIALREASON            CHARACTER (01),
        SIGNALCHARACTER         CHARACTER (01),
        STATIONNAME             CHARACTER (17),
        REMOTEHOSTNAME          CHARACTER (17),
        REMOTENODEADDRESS       CHARACTER (05);
```

Semantics:

MESSAGETYPE
    The MESSAGETYPE field is set to "17" for both the
    VIRTUAL_CONNECT_REQUEST and a VIRTUAL_CONNECT_REPLY
    messages.

VARIANT
    The VARIANT field is set to "0" (zero) to indicate that the
    message is a VIRTUAL_CONNECT_REQUEST message and is set to
    "1" by the MCS to indicate that it is a
    VIRTUAL_CONNECT_REPLY message.

LSN
    The LSN field is the Logical Station Number (LSN) of the
    station and is read by the MCS.

APPROVEDENY
    The APPROVEDENY field is set by the MCS. If the
    VIRTUAL_CONNECT_REQUEST message is to be denied, the MCS
    sets the the APPROVEDENY field to "0" (zero) and sets the
    DENIALREASON field to the appropriate value. If the
    VIRTUAL_CONNECT_REQUEST message is to be approved, the MCS
    sets the APPROVEDENY field to "1".

DENIALREASON
    The DENIALREASON field is set by the MCS. If the
    VIRTUAL_CONNECT_REQUEST message is to be denied, the MCS
    sets the DENIALREASON field to one of the following values.

Reason	Meaning	MCP Reports As
0	No reason	No report
1	File missing	File missing
2	File locked	File locked
3	Adapter missing	File missing
4	MCS denies	File locked
5	No room in file tables	File locked
6	Invalid LSN list	File missing
7	Too nested	File locked
8	MCS missing	No report
9	Invalid station count	No report

SIGNALCHARACTER
    The SIGNALCHARACTER field is the signal character that is
    used when attached to another remote file. This field is
    set by the MCS.

STATIONNAME
    The STATIONNAME field is the name assigned to the logical
    station number (LSN) in the remote host system's network
    controller.

REMOTEHOSTNAME
    The REMOTEHOSTNAME field is the host name for the the system
    in which the VIRTUAL_CONNECT_REQUEST message originated.

REMOTENODEADDRESS
    The REMOTENODEADDRESS field is the node address for the the
    system in which the VIRTUAL_CONNECT_REQUEST message
    originated.

BNA/HSP Patch #2   (Compile Date: 12/14/82)

With this patch, the BNA/HSP program now correctly formats the
data message sent to the network controller reporting that a
station, using the station transfer protocol, has been
subsequently disconnected.

BNA/HSP Patch #3   (Compile Date: 12/14/82)

This patch preserves the incoming MCS TOGGLES and TALLYS for
station transfer instead of blanking them out.

BNA/HSP Patch #4   (Compile Date: 12/14/82)   FCF 013-0338-RH1034

The BNS/HSP program now correctly detaches a station that was
connected from a remote host system when the BDLC line is
dropped.

BNA/HSP Patch #5   (Compile Date: 12/14/82)

The BNA/HSP program no longer aborts with INVALID SUBSTRING.

BNA/HSP Patch #6   (Compile Date: 12/14/82)

The BNA/HSP program now removes blank characters from ODT
commands that are to be sent to a remote host system.

BNA/NSM Patch #6   (Compile Date: 12/14/82)

This patch corrects the INVALID SUBSCRIPT program abort that
occured when short station names were specified.

BNA/NSM Patch #7   (Compile Date: 12/14/82)

The BNA/NSM program now correctly updates its global attribute
table (used for handling the local network attribute
specifications) while receiving multiple reports and responses
from the BNA/NSP program. This problem caused corrupted operator
messages and responses to NW commands to be displayed.

BNA/NSM Patch #8   (Compile Date: 12/14/82)

The BNA/NSM program no longer aborts with INVALID CASE when
processing a station inquiry command on the FRMR SENDER station
attribute. Also, this patch further corrects the problem that
was fixed with patch #7 to the BNA/NSP program.

BNA/NSM Patch #9   (Compile Date: 12/14/82)

The BNA/NSM program now correctly forwards the HARDWARE station
attribute changes to the BNA/NSP program. Previously, the
BNA/NSM program did not forward any changes to the HARDWARE
station attribute when a NW MODIFY station command was entered.

BNA/NSP Patch #1   (Compile Date: 11/29/82)

This patch fixes the looping problem when a write exception
occured.

BNA/NSP Patch #2   (Compile Date: 11/29/82)

This patch permits the user to set the Q_MAX_MESSAGES file
attribute for the PORTQ_IN and PORTQ_OUT queue files. The
default value for the Q_MAX_MESSAGES file attribute is 50 for the
PORTQ_IN queue file and 100 for the PORTQ_OUT queue file.
Increasing the Q_MAX_MESSAGES file attribute for the PORTQ.IN and
PORTQ.OUT queue files can result in increased throughput when
transferring files using the SYSTEM/COPY program.

BNA/NSP Patch #3   (Compile Date: 11/29/82)

The BNA/NSP program no longer aborts with READ OUT OF BOUNDS when
a neighbor-busy-timeout condition occurs.

BNA/NSP Patch #4   (Compile Date: 11/29/82)

With this patch, the SDL record description for the BDLC station
group was moved to lexical level zero so that analysis of BNA/NSP
memory dumps are easier to read.

BNA/NSP Patch #5   (Compile Date: 11/29/82)

With this patch, the BNA/NSP program now correctly handles
Two-Way Alternate (TWA) multiple WRITE operations correctly.
There can be up to seven WRITE operations in process. The
problem occurred when an exception to one of the WRITE operations
occurred and the BNA/NSP program attempted to issue a STOP
operation. This caused the BNA/NSP program to go into a loop.

BNA/NSP Patch #6   (Compile Date: 11/29/82)   FCF 013-0338-RH1033

With this patch, the BNA/NSP program now restarts the F Response
Timer when this timer expires. This prevents the BNA/NSP program
from using more processor than is required to handle I/O
operations.

BNA/NSP Patch #7   (Compile Date: 11/29/82)   FCF 013-0338-RH1037

With this patch, the BNA/NSP program now correctly negotiates the
link maximum segment size during processing of a received
GREETING 1 message.

BNA/NSP Patch #8   (Compile Date: 11/29/82)

This patch finishes the correction that was begun with patch #7
to the BNA/NSP program.

BNA/PLM Patch #1   (Compile Date: 11/17/82)

With this patch, the NW DEBUG AUDIT ON and NW DEBUG AUDIT OFF
commands now correctly turn on and turn off the audit options for
tracing the port level manager (PLM) and host services (HS)
functions.

BNA/PLM Patch #2   (Compile Date: 11/17/82)

The BNA/PLM program no longer opens the TRACEQ trace file when
the station transfer facility is invoked with the NW
ENABLESTATIONTRANSFER command.

BNA/SIZEFILE Re-release (Creation Date: 12/16/81)

The re-release of the BNA/SIZEFILE file is required for the use
of the BNA/NSP file.

CANDE Patch #4   (Compile Date: 11/04/82)

This patch resolves several problems and includes several
enhancements. This patch release must be used with the new CANDE
teach file, labeled CANDE/TEACH-FILE, and patch release #1 to the
CANDE/ANALYZER program.

   Problem Resolutions

This patch corrects the following problems. The FCF
number from the PSIM is included following the problem
description where applicable.

1. The error message written to the terminal when a
    user logs on with a usercode and password that is
    active at another station controlled by the CANDE
    program is not overwritten by any subsequent
    messages.
    FCF 400-8201-80M828

2. A resequence of an empty file now gives the correct
    number of records processed.
    FCF 400-8201-80M829

3. The PAGE LIT ONLY / / command now works correctly
    when the delimited token is a blank character.
    FCF 061-1043-ATL002

4. The CANDE program no longer aborts with an INVALID
    SUBSTRING when the page size is set to 1, the
    scroll function is enabled, and a full page of 1920
    characters is transmitted to the CANDE program that
    contains sequence errors.
    FCF 043-1028-BEL101

5. Performing multiple save and fix operations no
    longer causes incorrect information to be inserted
    into the file.
    FCF 023-0000-NES073

6. The CANDE program now generates the $VOID cards in
    column 7 when the workfile FILEKIND attribute is
    RPG and a patch file is being created.
    FCF 728-0000-N00018 and FCF 063-0745-STC001

7. The CANDE program no longer aborts with WRITE FPB
    DENIED when attempting to change the BLOCKSIZE or
    the AREALENGTH file attributes without setting the
    corresponding SIZE file attribute to 0.
    FCF 273-1959-DM0007

8. The PAGE ONLY /<token>/ command now works correctly
    when <token> is exactly 30 characters.
    FCF 010-0946-413NAV

9. The CANDE program now spawns a control string using
    the file CARD instead of CARDS for a COBOL74
    compile.
    FCF 010-0946-391CSA

10. The C AS $<token> command now works correctly when
    <token> is greater than 7 characters.
    FCF 400-8201-80M821

11. When a column range is specified in the WRITE
    command, the CANDE program now writes the partial
    record instead of the entire record.
    FCF 750-0000-400123

12. The CANDE program no longer aborts with INVALID
    SUBSTRING when the CANDE program receives an open
    remote file request from the network controller
    that contains more than 64 stations. The CANDE
    program now denies the open request.
    FCF 031-0314-SSH014

13. The CANDE program now frees the internal files
    (F0-F64) when a FIND command was performed on an
    external file with a FILEKIND attribute of DATA.
    Repeated occurrences of this caused the CANDE
    program to abort.
    FCF 031-0592-815921

14. The entry of a COMPILE WITH <compiler> where the
    <compiler> is unknown now generates a control
    string with the internal file name of CARD.

15. A GET of printer backup files is now disallowed.

Enhancements

The following enhancements have been made to the CANDE
program:

Filekinds

The CANDE program nows uses the FILEKIND attribute as
defined in the disk file header for a work file unless a
different FILEKIND attribute is specified in the CANDE
command. In prior releases of the CANDE program, a file
type was specified in the command syntax. This file type
was internal to the CANDE program and all files were
saved on disk with a FILEKIND of DATA. With this patch
release, the CANDE program now uses the FILEKIND
attribute in disk file header unless it is specifically
overriden in the command syntax. All occurrences of
"file type" in the B 1000 CANDE User's Manual, form
number 1090586 should be replaced with "FILEKIND".

Note

Initially, all files have the FILEKIND
attribute set to DATA in the disk file
header. Therefore, the FILEKIND attribute
must be specified in the command syntax until
a SAVE command is performed to change the
FILEKIND attribute in the disk file header,
unless the file is to be edited as a DATA
file. For example: GET A COBOL74.

The allowable FILEKIND attributes and the characteristics
of files created using the various FILEKIND attributes
are:

FILEKIND	Abbrev	Sequence Field	Text Field	ID Field	Text Width	Cmplr
BASIC	B	1-5	6-80	81-90 *	75	yes
COBOL	C	1-6	6-72	73-80	66	yes
COBOL74	C74	1-6	6-72	73-80	66	yes
DASDL	DAS	73-80	1-72	81-90 *	72	yes
DATA	D	none	1-80	none	80	no
FORTRAN	F	73-80	1-72	81-90 *	72	yes
FORTRAN77	F77	73-80	1-72	81-90 *	72	yes
MIL	M	73-80	1-72	81-90 *	72	yes
NDL	N	73-80	1-72	81-90 *	72	yes
PASCAL	P	73-80	1-72	81-90 *	72	#
RPG	R	1-5	6-80	81-90 *	72	yes
SDL	–	73-80	1-72	81-90 *	72	yes
SDL2	–	73-80	1-72	81-90 *	72	#
SEQ	S	73-80	1-72	81-90 *	72	no
UPL	U	73-80	1-72	81-90 *	72	yes

Notes

* = ID Field is entered using SPATCH command.
# = For a future product.

The FILEKIND attribute in the disk file header attribute
is set by creating a file with a FILEKIND attribute
specified and subsequently saving the file. For example:

1. MAKE <filename> COBOL
   <edit>
   SAVE

2. GET <filename> COBOL
   SAVE

The second example changes the FILEKIND attribute in the
disk file header; no records in the workfile are
rewritten.

The only time the FILEKIND attribute must be specified
using the GET command is if (1) it was created prior to
this release of the CANDE program or (2) the user wishes
to change the FILEKIND attribute in the disk file header.

DATA File Editing

The CANDE program has been enhanced to show all the text
for files with a FILEKIND attribute of DATA. All 80
columns are displayed only if there are non-blank text in
columns 73-80; otherwise only the first 72 columns are
displayed. The format of the display for files with a
FILEKIND attribute of DATA is:

```
000000100[ columns 01-72 of text ]
&          [ columns 73-80 of text ]
000000200[ columns 01-72 of text ]
&          [ columns 73-80 of text ]
       .
       .
       .
```

The ampersand (&) character must appear in column 1 of
the continuation record. Input to the CANDE program can
also be entered using the above format.

If any non-blank characters appear between the ampersand
(&) character and the start of the text (column 8 on the
terminal) or if more than 8 characters of data is entered
on the continuation line, the entry is flagged as a
sequence error. For example, the following two entries
generate sequence errors:

```
1.   000000100[ columns 01-72 of text ]
     &  oops  [ columns 73-80 of text ]
     000000200[ columns 01-72 of text ]
     &         [ columns 73-80 of text ]

2.   000000100[ columns 01-72 of text ]
     &         This is more than 8 characters
     000000200[ columns 01-72 of text ]
     &         [ columns 73-80 of text ]
```

In the first example, there are non-blank characters
between the ampersand (&) character and column 1 of the
text for the first record. In the second example, the
continuation text of the first record is greater than 8
characters.

MT 686/MT 687 Terminals Page Editing

The CANDE program now treats MT 686 and MT 687 terminals
as screen devices with a page size of 18. The MT 686 and
MT 687 terminals must be declared in the network
controller symbolic code with a terminal type of 50. If
the SMCS program is used in conjunction with the CANDE
program, patch release 7 of the SMCS program which also
incorporates the changes for the MT 686 and MT 687
terminals, must be used.

REPLACE Command for COBOL and COBOL74 files

REPLACE commands performed on files with a FILEKIND
attribute of COBOL or COBOL74 now only replace the text
between columns 7 and 72. If the replacement string is
larger than the string to be replaced, data is not pushed
right into columns 73-80 which is used as the id field.

COBOL and COBOL74 ID_FIELD Display

When a page is displayed for files with a FILEKIND
attribute of COBOL or COBOL74, the token ID_FIELD now
appears under columns 73 through 80.

WRITE Command -- printer backup files

The default naming convention for printer backup files
created using the WRITE command has been changed from
<usercode>/#<filename> to <usercode>/PRT<filename>. If
<filename> is greater than 7 characters, the first 7
characters are used.

Write Command -- punch backup files

The default naming convention for punch backup files
created using the WRITE command has been changed from
<usercode>/%<filename> to <usercode>/PCH<filename>. If
<filename> is greater than 7 characters, the first 7
characters are used.

CANDE Work Files

The CANDE work files, WORK, TEACH.FILE, CMD.Q.FILE, and
PAGE.FILE now use the hyphen (-) character in place of
the period (.) character in the external file names.
These names are now:

File	External Name	Old External Name
WORK	CANDE/WORK-FILE	CANDE/WORK.FILE
TEACH.FILE	CANDE/TEACH-FILE	CANDE/TEACH.FILE
CMD.Q.FILE	CANDE/Q-FILE	CANDE/Q.FILE
PAGE.FILE	CANDE/PAGE-FILE	CANDE/PAGE.FILE

GET Command -- number of users.

The CANDE program now informs a user, who has loaded a
file using the GET command, about the number of other
users of the file (if there are any).

$VOID Records

The $VOID records generated by the CANDE program when a
patch file is saved now contain a sequence range. If
only a single record was deleted, the sequence number of
that record appears as the end range. For example, if
records 1000 to 1500 are deleted, the CANDE program
generates the following $VOID record:

        00001000$VOID 00001500

If a single record was deleted, the following $VOID
record is generated:

        00001000$VOID 00001000

Usercode and Password

A usercode and password can now contain any special
character except for a blank or a virgule (/) character.

Insert of Records

The CANDE program now allows the user to manually insert
records between lines of a displayed page of data without
the need to add sequence numbers to the new text for all
FILEKIND attributes except DATA. The CANDE sequence
numbers are incremented by 5 starting at the last
sequence number entered. An example of this editing
feature follows. In this example, input to the CANDE
program is indicated by "==>" and output to the terminal
is indicated by "<==".

```
==>   PAGE

<==   00001000   [ text ]
      00002000   [ text ]
      00003000   [ text ]
      00004000   [ text ]
      00005000   [ text ]
      00006000   [ text ]
      00007000   [ text ]
      00008000   [ text ]

==>   00001000   [ text ]
      00002000   [ text ]
      00003000   [ text ]
      00004000   [ text ]
                 This is new text.
                 There is no need to put sequence
                 numbers since CANDE will generate then.
      00005000   [ text ]
      00006000   [ text ]
      00007000   [ text ]
      00008000   [ text ]

==>   PAGE

<==   00001000   [ text ]
      00002000   [ text ]
      00003000   [ text ]
      00004000   [ text ]
      00004005   This is new text.
      00004010   There is no need to put sequence
      00004020   numbers since CANDE generates them.
      00005000   [ text ]
      00006000   [ text ]
      00007000   [ text ]
      00008000   [ text ]
```

CANDE Patch #5   (Compile Date: 11/04/82)   FCF 032-0227-JCL061

With this patch, the CANDE program no longer allows a printer
backup file or a data file with a record size of less than 80
characters or greater than 90 characters to be loaded. In these
cases, the error message: "SOURCE IS NOT CANDE COMPATABLE" is
displayed.

CANDE/ANALYZER Patch #1 (Compile Date: 08/11/81)

This patch is required for use with patch #4 to the CANDE
program.

The external file name for the file WORK has been changed to
CANDE/WORK-FILE to correspond to the the change in the CANDE
program.

The CANDE/ANALYZER program must be executed using the same file
equations for the WORK.FILE, RECOVERY, and AUDIT files. For
example, if the CANDE program is executed as follows:

    1.   EXECUTE CANDE; FILE WORK PID USER;
         FILE RECOVERY PID USER; FILE AUDIT PID USER;

    2.   USER WOMBAT; EXECUTE CANDE;

The CANDE/ANALYZER program must be executed as follows:

    1.   EXECUTE CANDE/ANALYZER;FI WORK.FILE PID USER;
         FILE RECOVER PID USER; FILE AUDIT PID USER;

    2.   USER WOMBAT; EXECUTE CANDE/ANALYZER;

A CANDE/ANALYZER listing must be submitted with all CANDE Field
Communication Forms Trouble Reports in addition to the CANDE
program dump.

CANDE/TEACH-FILE Initial Release (Creation Date: 07/24/81)

The CANDE/TEACH-FILE is required for use with patch #4 to the
CANDE program. The file labeled CANDE/TEACH.FILE should be
removed.

CASSETTE/LOADER Patch #2 (Compile Date: 09/03/82)

This patch corrects a problem which halted a slave processor on a
dual processor system.

In addition, this patch makes the following changes to allow the
implementation of a future product:

  1. Removes the cassette rewind operations so that firmware for
      a future product can be loaded. The cassette rewind
      operations are now performed by the loaded SDL program via a
      communicate with GISMO or directly by a loaded MIL program.

2. The minimun memory size required has been increased from 64K
   to 96K bytes.

CASSETTE/LOADER Patch #3 (Compile Date: 09/03/82)

With this patch, the slave processor (on a dual processor system)
is halted when a standalone utility program loaded. Prior to
this patch, the standalone utility programs would loop before
displaying any messages on the ODT, if executed with both master
and slave processors enabled. It is no longer necessary to take
the slave processor off line.

CLEAR/START Re-release   (Compile Date: 08/13/81)

With this patch a clear start operation can be performed on a
B1000 system without cache memory (B1710 and B1830).

COBOL Patch #5   (Compile Date: 12/01/82)

With this patch, the OPEN WITH LOCK verb now locks the tag file
as well as the data file.

COBOL Patch #6   (Compile Date: 12/01/82)

This patch corrects an error introduced in COBOL Patch #5.

COBOL74 Patch #10   (Compile Date: 01/13/83)

This patch allows the primary record key to follow the alternate
keys in an INDEXED file record description.

COBOL74 Patch #11   (Compile Date: 01/13/83)

With this patch, the STRING verb now works correctly when used
with literal subscripted parameters.

COBOL74 Patch #12   (Compile Date: 01/13/83)

This patch allows library files with null text to be copied.

COBOL74 Patch #13   (Compile Date: 01/13/83)

With this patch, the AUDITED file attribute now works correctly
for COBOL74 file types with the exception of ISAM files.

COBOL74 Patch #14   (Compile Date: 01/13/83)

This patch allows level 66 alternate keys to be used in the START
statement.

COBOL74 Patch #15   (Compile Date: 01/13/83)

With this patch, a FIND verb used with a GENERALIZED SELECTION
EXPRESSION will be syntaxed properly.

COBOL74 Patch #16   (Compile Date: 01/13/83)

With this patch, the FROM...REPLACING option of the COPY verb is
now correctly syntaxed.

COBOL74 Patch #17   (Compile Date: 01/13/83)

With this patch, 63 invoke statements are now allowed on each
unique structure in a COBOL74 program using DMSII.

COBOL74 Patch #18   (Compile Date: 01/13/83)   FCF 675-0113-500467

With this patch, a COBOL74 program abort condition no longer
causes newly created files to be made permanent.

COBOL74 Patch #19   (Compile Date: 01/13/83)   FCF 012-0749-SCP073

This patch corrects an error that was introduced in patch #16.
The "COPY....FROM....." statement now works correctly.

COBOL74 Patch #20   (Compile Date: 01/13/83)   FCF 013-0338-BL0009

This patch corrects an error that was introduced in patch #14.
If the alternate key in an ISAM file is an elementary item, the
size of the alternate key is now correctly calculated by the
COBOL74 compiler.

COBOL74/INTERP1M Re-release #2 (Compile Date: 10/13/83)

This re-release contains the following:

1.   The INSPECT operation of an operand greater than 1024
      characters now works correctly.
      FCF 400-8201-80M807

2.   Attempting to delete an invalid record in an
      indexed-sequential file now returns a FILE STATUS value of
      "23", instead of "34".
      FCF 010-0946-313HSC

COBOL74/INTERP1M Re-release #3 (Compile Date: 10/13/82)

This re-release contains the following:

1.   An item with an OCCURS clause which is subordinate to an
      OCCURS DEPENDING now works correctly.
      FCF 675-0171-500459

2.   A USE PROCEDURE for a tape parity error now takes the proper
      program branch.
      FCF 031-0844-UDP008

CODE/ANALYZER Patch #1   (Compile Date: 06/02/82)

The AREALENGTH and BLOCKSIZE fields are now printed correctly by
the CODE/ANALYZER program when analyzing a COBOL74 program.

COLDSTART/DISK Patch #4   (Compile Date: 11/04/82)

This patch contains the following:

 1.   The REWIND CASSETTE message has been removed.

 2.   The handling of a disk ATTENTION result descriptor has been
      corrected.

 3.   The maximum size of an ODT input response has been increased
      to 96 characters to avoid a premature EOJ.

 4.   The use of the ETX character is no longer required.

 5.   IO devices with a software ID > 31 can now be recognized.

6.   Added SYSTEM/CONTROLLER, SYSTEM/NIF, SYSTEM/MLFIRMWARE,
     SYSTEM/MLCLOADER, and SDL.INTRIN/AGGREGATE to the files that
     are required to be on the input pack. They are copied to
     the output pack for use by the operating system (MCPII) in
     handling a future product.

NOTICE: This patch requires the use of the following software:

Program	Patch Level
SSLOAD/MAKCAS	10.0.003 or later
CASSETTE/LOADER	10.0.003 or later
GISMO/SA	Compile Date 7/11/82 or later

COLDSTART/DISK Patch #5 (Compile Date: 11/04/82)

With this patch the ODT_Q_SIZE field in the disk coldstart
variables is now properly set to 200. Prior to this patch, the
ODT_Q_SIZE field was set to zero which caused MCPII/ANALYZER
program to incorrectly print INVALID ODT QUEUE POINTER in the
listing. This patch also zeros out the 1st sector of the ODT
QUEUE.

COLDSTART/DISK Patch #6 (Compile Date: 11/04/82)

This patch contains the following:

1.   Allows the COLDSTART/DISK program to work with a
     SYSTEM/MLFIRMWARE file dated 7/12/82 or later.

2.   Allows the use of the ERROR pushbutton on a TTY SPO to
     delete incorrect input.

3.   Ensures that the first line of TTY SPO output begins at
     character position one of the new line.

4.   The program no longer hangs awaiting an IO complete after
     the operator pushed the INPUT REQUEST pushbutton on the TTY
     SPO.

5.   WRITE LOCKOUT on an output disk is now correctable.

6.   The SYSTEM/MLCLOADER file is no longer a required file.

7.   The COLDSTART/DISK program no longer generates an incorrect
     message "<filename> BAD AREA...".

COLDSTART/TAPE Patch #4   (Compile Date: 05/12/82)

With this patch, the COLDSTART/TAPE program loads the
SYSTEM/CONTROLLER, SYSTEM/NIF, and SYSTEM/MLFIRMWARE files to the
system disk. These are required files and are for use with a
future product.

CREATE/ISAM   (Compile Date: 08/20/82)

This is the initial release of the CREATE/ISAM utility program.
Refer to the printer backup file labelled DOCUMENT/CREATEISAM for
a complete description of the CREATE/ISAM utility program.

DISK/DUMP Patch #2   (Compile Date: 11/04/82)

This patch contains the following changes:

 1. Removes the REWIND CASSETTE message.

 2. Corrects the handling of the disk ATTENTION result
     descriptor.

 3. Corrects a problem using a Teletye SPO where the prompt "IS
     VERIFICATION REQUIRED? <YES OR NO>" was always answered by
     "INVALID RESPONSE - TRY AGAIN".

 4. The use of the ETX character is no longer required.

 5. The method for handling a "STATUS" input request from the
     operator has been changed, resulting in increased throughput
     with a future product.

NOTICE: This patch requires the use of the following software:

     Program   Patch Level
     --------   ------------

     SSLOAD/MAKCAS   10.0.001 or later
     CASSETTE/LOADER   10.0.002 or later
     GISMO/SA   Compile Date 5/24/82 or later

DISK/DUMP Patch #3   (Compile Date: 11/04/82)

This patch contains the following:

1.   Allows the DISK/DUMP program to work with a
     SYSTEM/MLFIRMWARE file dated 7/12/82 or later.

2.   Allows the use of the ERROR pushbutton on a TTY SPO to
      delete incorrect input.

3.   Ensures that the first line of TTY SPO output begins at
      character position one of the new line.

4.   The DISK/DUMP program no longer hangs awaiting an IO
      complete after the operator pushed the INPUT REQUEST
      pushbutton on the TTY SPO.

5.   WRITE LOCKOUT on an output disk is now correctable.

6.   The WRITE LOCKOUT message is now correctly reported.

7.   The DISK/DUMP program no longer aobrts with an INVALID CASE
      due to an incorrect message.

DISKETTE/COPY Patch #1   (Compile Date: 11/10/82)

With this patch, the DISKETTE/COPY program correctly recognizes a
file in which the end-of-data (EOD) sector address is equal to
the beginning-of-extent (BOE) sector address (an empty file) and
therefore can copy it from a diskette.

DISKETTE/COPY Patch #2   (Compile Date: 11/10/82)

This patch contains the following:

1.   Normally only 74 of the 75 diskette tracks are used for
      data. If SWITCH 9 is set to 1, the DISKETTE/COPY program
      utilizes track 75 also. If SWITCH 9 set to 1 the
      INTERCHANGE mode cannot be used.

2.   The pseudo-reader option (PSR) can now be used with the Mark
      10.0 DISKETTE/COPY program. Prior to this patch, a
      NAME/VALUE STACK OVERFLOW program abort occurred when using
      the PSR option. This was a Mark 10.0 problem only. The
      size of the value stack has been increased to 31500 bits.

DISKMAP/UTILITY Patch #2 (Compile Date: 11/04/82)

The DISKMAP/UTILITY program now correctly maps a continuation
pack.

DMPALL Patch #2   (Compile Date: 12/30/82)

This patch updates the DMPALL program for use with a future
product.

DMPALL Patch #3   (Compile Date: 12/30/82)   FCF 053-0201-820141

With this patch, the DMPALL program now restricts DMPALL
specifications to AREAS=1 RECORDSIZE=180 for code, interpreter,
and intrinsic files. All other specifications are ignored. The
DMPALL program used to abort with EXCEED FILE SPACE FOR FILE
<file-identifier> when different specifications were entered.

DMPALL Patch #4   (Compile Date: 12/30/82)   FCF 151-1018-IPM030

With this patch, the DMPALL program now corrects copies files
when HOST <remote-hostname> is specified.

DMPALL Patch #5   (Compile date: 12/30/83)   FCF 023-0094-IMP007

Prior to this patch, attempting to copy a pseudo deck resulted in
a corrupted output file. With this patch, a pseudo deck may now
be copied using the DMPALL program but the resulting output file
has a file type of data.

DMS/DASDL Patch #4   (Compile Date: 09/03/82)   FCF 037-0770-503014

The DMS/DASDL compiler no longer aborts with an INVALID SUBSCRIPT
when a data set declaration exceeded 8191 bytes. This patch
causes a syntax error to be produced if this condition occurs.

DMS/DASDL Patch #5   (Compile Date: 09/03/82)

The Mark 11.0 data bases will be in a slightly different format.
This patch allows Mark 11.0 data bases to be converted back to
the Mark 10.0 format if desired.

DMS/DASDL Patch #6   (Compile Date: 09/03/82)   FCF 054-0028-PBC002

With this patch, the MCPII no longer halts with an INVALID
SUBSTRING when the DMS/DASDL compiler generated incorrect code
for INITIALVALUES and a create operation was attempted. This
happened only when 1) a variable-format part had INITIALVALUE
statements, 2) the variable-format part had its own VERIFY
statement, and 3) the dataset containing the variable-format part
was not near the front of the DMS/DASDL source file.

DMS/DASDL Patch #7   (Compile Date: 09/03/82)

With this patch, the DMS/DASDL compiler now correctly generates a
syntax error when remapping a variable-format part in a VERIFY
clause.

DMS/DASDL Patch #8   (Compile Date: 09/03/82)

With this patch, the DMS/DASDL compiler now allows more than 63
variable-format parts in a reorganization, although 255 are
allowed when compiling a new database.

DMS/DBMAP Patch #2   (Compile Date: 09/29/82)

This patch corrects the following two problems:

1.   The INVALID KEY TABLE condition when SWITCH 1=2 (disjoint
     data set listing) and not using SWITCH 7 or SWITCH 8
     (integrity checking) equal to zero.

2.   If the object data set record of a manual fast subset is a
     dead record, the DMS/DBMAP program reports a good record,
     that is, no integrity error is generated.

DMS/DBMAP Patch #3   (Compile Date: 09/29/82)

This patch corrects a looping problem with the DMS/DBMAP program
when a structure has a circular next available chain and the
DMS/DBMAP program is doing validity checking on the structure.
The error "CIRCULAR NEXT AVAILABLE CHAIN" is now given.

DMS/DBMAP Patch #4   (Compile Date: 09/29/82)

With this patch the DMS/DBMAP program no longer erroneously
reports a circular next available chain when there was not one.
This patch finishes the correction that began with patch #3 to
the DMS/DBMAP program.

DMS/DECOMPILER Patch #3 (Compile Date: 09/03/82)

With this patch, the DMS/DECOMPILER program no longer generates
incorrect output when a manual subset does not have a new name in
a remapped structured.

DMS/DECOMPILER Patch #4 (Compile Date: 09/03/82)

With this patch, the DMS/DECOMPILER program now correctly generates quotation mark (") characters for names that do not conform to COBOL or COBOL74 identifier conventions.

DMS/INQUIRY Patch #5   (Compile Date: 12/14/82)

With this patch, the DMS/INQUIRY program no longer includes a non-key item in the DMSII search operation causing a DMS/INQUIRY INTERNAL ERROR OR SYSTEMERROR EXCEPTION message to be displayed.

DMS/INQUIRY Patch #6   (Compile Date: 12/14/82)

This patch corrects the following two problems:

1.   The DMS/INQUIRY program no longer aborts with an INVALID
     SUBSTRING when a DEFINE text of more than 6 lines is
     restored.
     FCF 142-1340-BR2506
     FCF 675-0080-500747
     FCF 063-0745-000100

2.   The DMS/INQUIRY program no longer converts an alpha literal
     composed only of spaces to a zero length alpha literal when
     recalled and repeated. This resulted in the selection of
     wrong records.
     FCF 150-1024-TM0002

DMS/INQUIRY Patch #7   (Compile Date: 12/14/82)   FCF 151-0831-EI0009

With this patch, the DMS/INQUIRY program no longer fetches the wrong records when selecting at an alpha field equal to the same alpha data in another dataset. This could also have resulted in an INVALID SUBSTRING program abort.

DMS/INQUIRY Patch #8   (Compile Date: 12/14/82)   FCF 400-8040-80T003

With this patch, the DMS/INQUIRY program no longer issues spurious syntax errors when a parameter to a DEFINE statement is used within the text of that DEFINE statement.

DMS/INQUIRY Patch #9   (Compile Date: 12/14/82)   FCF 758-1900-N00072

The DMS/INQUIRY program no longer aborts with INVALID SUBSTRING
when an item with a title greater than 23 characters was
displayed. This occured if a long item name had been given to a
multi-dimensioned array element.

DMS/REORG.READ Patch #1 (Compile Date: 12/14/82)   FCF 142-1340-RSA004

The DMS/REORG.READ program no aborts with INVALID CASE when DMS
returned an integrity error or fatal error exception.

DMS/REORG.WRIT Patch #5 (Compile Date: 12/14/82)

This patch allows the DMS/REORG.WRIT program to choose the number
of segments for the output DMS dictionary file based upon the
existing temporary DMS dictionary file generated by the DMS/DASDL
compiler.

DMS/REORG.WRIT Patch #6 (Compile Date: 12/14/82)

The DMS/REORG.WRIT program now correctly updates the DATE and
TIME stamp fields in the data base dictionary file for the
affected files when the program is restarted.

DMS/REORG.WRIT Patch #7 (Compile Date: 12/14/82)   FCF 705-0015-001195

The DMS/REORG.WRIT program no longer aborts with INVALID CASE
when DMS returns an intergrity error or fatal error exception.

DUMP/ANALYZER Patch #4   (Compile Date: 12/30/82)

This patch is a member of a set which includes:

        DUMP/ANALYZER Patch #4
        MCPII Patches #69 and #94
        MCPII/ANALYZER Patch #2
        MCPII/MICRO.MCP Version @10002929@
        NDL/LIBRARY Patch #2
        NDL/MACRO Patch #6

This set of patches provides an enhancement by completing the
implementation of the Communication module in COBOL74. The
Communication module provides the ability to access, process, and
create messages or portions thereof. It provides the ability to
communicate through a Message Control System with local and
remote communication devices.

In order to analyze dumps associated with this enhancement,
DUMP/ANALYZER Patch #4 and MCPII/ANALYZER Patch #2 must be used.

DUMP/ANALYZER Patch #5   (Compile Date: 12/30/82)   FCF 042-0146-000501
                                                            FCF 271-1959-000501

This patch eliminates two problems:

1.   Print line truncation in COBOL74 data division analysis.
     The print line has been reformated to fit into 120
     characters.

2.   Program loop during FORTRAN FIB analysis.

DUMP/ANALYZER Patch #6   (Compile Date: 12/30/82)   FCF 031-0066-CCS013

With this patch, the DUMP/ANALYZER program now correctly prints
only one segment table when a routine occupies more than one code
segment and program switches 0 and 2 were set to 1. This patch
only affects the processing of FORTRAN77 dump files.

DUMP/ANALYZER Patch #7   (Compile Date: 12/30/82)

With this patch the DUMP/ANALYZER program now prints the correct
values when analyzing a COBOL74 array.

DUMP/ANALYZER Patch #8   (Compile Date: 12/30/82)   FCF 023-0000-PES022

With this patch, the DUMP/ANALYZER program no longer loops when
analyzing a COBOL74 dump file and an item in a OCCURS clause was
followed by an item or group with a lower level other than level
1.

DUMP/ANALYZER Patch #9   (Compile Date: 12/30/82)

This patch eliminates an INVALID SUBSTRING program abort.

DUMP/ANALYZER Patch #10   (Compile Date: 12/30/82)

With this patch, the DUMP/ANALYZER program now correctly analyzes
the value of the actual key in a random access file for COBOL and
COBOL74 program memory dumps. The DUMP/ANALYZER program used to
print the values begining with 0 (zero relative) instead of 1
(one relative).

DUMP/ANALYZER Patch #11 (Compile Date: 12/30/82)

With this patch, the DUMP/ANALYZER no longer loops when analyzing the linkage section of a COBOL74 called program.

DUMP/ANALYZER Patch #12 (Compile Date: 12/30/82)

This patch includes the following changes.

1. The dumpfile is opened for input only. This change allows more than one program to access the dumpfile at the same time.

2. The contents of the reader/sorter buffer are printed.

3. Redundant lines of COBOL74 layout table output are suppressed.

4. If a long COBOL74 alphanumeric item is all blank, only one line is printed.

5. The new RS_GO_EVENT and FIB_OPTIONAL_FILE bits are printed. The GO_EVENT was added to the run structure by MCPII Patch #50. The OPTIONAL_FILE bit was added to the file information block by MCPII Patch #126.

6. The OPEN_LOCK and OPEN_LOCKOUT bits are printed. They were moved to the portion of the file information block which is common to all I/O devices by MCPII Patch #140.

FOR.INTRIN Re-release #1 (Creation Date: 11/22/82)

This patch contains the following:

1. The FORTRAN intrinsics no longer generates an extra 1 in the seventh digit position after the decimal point using the F edit descriptor.
    FCF 043-0444-081682

2. The FORTRAN intrinsics now correctly stores the value of a REAL number.
    FCF 149-1016-THER03

FORTRAN Patch #1   (Compile Date: 01/14/83)

This patch contains the following:

1.   THE FORTRAN compiler now correctly sequences entries in the
     Cross Reference Table.
     FCF 715-0000-000011

2.   The literal table has been expanded properly and no longer
     causes the FORTRAN compiler to abort with an INVALID
     SUBSCRIPT message.
     FCF 505-0901-804743

3.   The FORTRAN compiler no longer generates a syntax error for
     a format descriptor of F2.2.
     FCF 144-1360-KOL101

FORTRAN77 Patch #1   (Compile Date: 01/27/83)

This patch contains the following two corrections:

1.   A DO LOOP is now handled properly when a STATEMENT FUNCTION
     is referenced within the DO LOOP.
     FCF 010-0946-399BMK

2.   A WRITE statement whose destination is a CHARACTER ARRAY
     element now writes to the correct element of the CHARACTER
     ARRAY.
     FCF 013-0338-DWH002

FORTRAN77 Patch #2   (Compile Date: 01/27/83)   FCF 042-0246-500104

With this patch, the FORTRAN77 compiler correctly checks for a
maximum of 511 data pages for any one common block or any one
group of local data, and allows a total of 1023 data pages in a
program.

FORTRAN77 Patch #3   (Compile Date: 01/27/83)

This patch contains the following:

1.   Large embedded IF-THEN-ELSE blocks no longer cause the
     FORTRAN77 compiler to abort with a fatal error message.
     FCF 005-0156-NDMT25

2.   Data from the block data area is now properly initialized
     the in program common area.
     FCF 705-0000-DM1681

3. The FORTRAN77 compiler now correctly initializes null
    dynamic data pages.
    FCF 031-0066-CCS010

4. The FORTRAN77 compiler no longer generates a syntax error
    when an array, local to a subroutine, exceeds 512 bytes.
    FCF 031-0066-CCS012

5. The FORTRAN77 compiler no longer fails when an array
    variable is used as a parameter to a DO loop.
    FCF 005-0156-NDMT24

6. The FORTRAN77 compiler no longer aborts with NO EOF
    PROVISION FOR <filename> when an ICM file has (24 * n) - 1
    subroutines.
    FCF 005-0156-NDMT20

7. The FORTRAN77 compiler no longer aborts with INVALID CASE
    when a segment contains more than 128K bytes. The compiler
    generates a syntax error instead.
    FCF 143-1350-820176

8. Code and data mapping capabilites have been added to the
    FORTRAN77 compiler.
    FCF 005-0156-NDMT10
    FCF 675-0162-500687

9. The FORTRAN77 compiler no longer aborts with INVALID
    SUBSTRING when attempting to analyze the substring bounds in
    a DATA statement.
    FCF 010-0946-497NAV

FORTRAN77 Patch #4   (Compile Date: 01/27/83)

This patch contains the following:

1. The FORTRAN77 compiler no longer aborts with INVALID
    SUBSCRIPT.
    FCF 781-0689-820001

2. The FORTRAN77 compiler now generates correct code for a
    complex expression involving a unary minus operator.
    FCF 781-0689-820005

3. The FORTRAN77 compiler now correctly handles 7-dimensional
    arrays in which all subscripts are variables.

4. The FORTRAN77 compiler now correctly handles an array
    element having a byte offset greater than 2^{18} bytes.

FORTRAN77 Patch #5   (Compile Date: 01/27/83)

This patch contains the following:

1.   Accepts SUBROUTINE and CALL statements with no argument.

2.   Accepts INTRINSIC function ATANZ with real or double
      precision arguments.

3.   Accepts the passed character string, CHARACTER XXX *(*), as
      the format specifier of an I/O statement.

4.   Accepts REAL constant as a DO loop terminal value.

5.   Accepts INTEGER argument for built-in function CMPLX.

FORTRAN77 Patch #6   (Compile Date: 01/27/83)   FCF 013-0038-BJS003

With this patch, the NAMELIST I-O statement with a large number of
elements works correctly.

FORTRAN77/INTERP2M Re-release #1 (Compile Date: 11/12/82)
                                              FCF 005-0156-NDMT13
                                              FCF 021-1066-BC0002

With this patch, the FORTRAN77 interpreter now correctly writes
real values that were stored correctly but were output
incorrectly.

FORTRAN77/INTERP2M Re-release #2 (Compile Date: 11/12/82)

This patch contains the following:

1.   The FORTRAN77 interpreter now correctly writes real values
      with list-directed I/O.
      FCF 005-0156-NDMT23

2.   The FORTRAN77 interpreter now correctly handles formatted
      output.
      FCF 781-0689-820002

FORTRAN77/INTERP2M Re-release #3 (Compile Date: 11/12/82)

This patch contains the following:

1.   Double precision data in a common area larger than 4096
      bytes is no longer corrupted.
      FCF 149-1022-SSH056

2.   An exponent underflow problem occuring with some
      calculations has been corrected.
      FCF 705-0002-001170

3.   An erroneous print-out (using an F2.1 specification to print
      0.0005) has been fixed.

4.   The problem of producing a negatively signed zero has been
      fixed.

FORTRAN77/INTERP2M Re-release #4 (Compile Date: 11/12/82)

This patch contains the following:

1.   The problem resulting in a DO variable being incremented
      incorrectly in a heavy mix within a DO LOOP extending over
      one code segment has been corrected. The FORTRAN77
      interpreter no longer executes the DO.UP S-operator more
      than once when branching to a segment not in memory.
      FCF 010-0946-545CGA

2.   The FORTRAN77 S-machine does not allow an array element in
      dynamic memory that has a page number greater than 511 to be
      passed to a subroutine or function. The FORTRAN77
      interpreter now issues a run-time error message when this
      occurs.
      FCF 042-0246-500136

3.   The problem resulting in the FORTRAN77 interpreter
      generating an invalid address for a subroutine pass has been
      corrected.
      FCF 593-0000-TBL002

FORTRAN77/INTRINSICS Re-release #1 (Creation Date: 12/16/82)

This patch contains the following:

1.   The FORTRAN77 instrinsics now correctly handle INQUIRY
      statements to non-existent files.
      FCF 005-0156-NDMT17
      FCF 005-0156-NMDT21

2.   The FORTRAN77 instrinsics now correctly handle code for
      X-edit descriptors.
      FCF 031-1013-TS9120

FORTRAN77/INTRINSICS Re-release #2 (Creation Date: 12/16/82)

This patch contains the following:

1.   The FORTRAN77 intrinsics now correctly write real values
      with list-directed I/O.
      FCF 005-0156-NDMT23

2.   The FORTRAN77 intrinsics now correctly allow the X-edit
      descriptor to specify a position beyond the last character
      in a record if no characters are transmitted from that
      position.

3.   The SCRATCH value of the STATUS attribute in the OPEN
      statement now correctly conforms to other Burroughs
      FORTRAN77 compilers.

FORTRAN77/INTRINSICS Re-release #3 (Creation Date: 12/16/82)
                                            FCF 042-0246-500136

The FORTRAN77 S-machine does not allow an array element in
dynamic memory that has a page number greater than 511 to be
passed to a subroutine or function. With this patch, the
FORTRAN77 intrinsics now issues a run-time error when this
occurs.

FORTRAN77/INTRINSICS Re-release #4 (Creation Date: 12/16/82)

This patch contains the following:

1.   The FORTRAN77 intrinsics now correctly stores the record
      length in the File Information Block (FIB) when executing an
      OPEN statement with the RECL option.
      FCF 031-0175-VIA028

2.   The FORTRAN77 intrinsics now correctly accepts a comma (,)
      character as the delimiter for free format fields in data
      files.
      FCF 005-0156-NDMT27

GISMO   (Compile Date: 01/13/83)
GISMO/DEBUG
GISMO/SA Version @10003333@

This version allows a standalone program to run on B-1000 systems
without cache memory. These systems include B-1830 and all
B-1700 systems.

GISMO   (Compile Date: 01/13/83)
GISMO/DEBUG
GISMO/SA Version @10003434@

This version contains two changes:

1.   It allows a program accessing a Reader/Sorter device to
     recover from an exception.

2.   It eliminates a problem with a program attempting to wait a
     specified amount of time for an event to occur.

GISMO   (Compile Date: 01/13/83)   FCF 032-0831-CCS124
GISMO/DEBUG
GISMO/SA Version @10003535@

This version contains two changes:

1.   It eliminates various system halts and system hangs on dual
     processor systems performing a large number of input/output
     operations.

2.   It facilitates the implementation of a future diagnostic
     product.

GISMO   (Compile Date: 01/13/83)   FCF 758-1900-000055
GISMO/DEBUG
GISMO/SA Version @10003636@

This version contains two changes:

1.   It eliminates the L = @0D0030@ system halt on a dual
     processor system with the SQRM system option set.

2.   It eliminates a temporary processor loop after a tape access
     error. The effect of this temporary processor loop is:

a. On a single processor system, or on a dual processor
    system with the TOUT system option reset, the processor
    time for the job which was accessing the tape file is
    not updated during the loop.

b. On a dual processor system with the TOUT system option
    set the system halts with L = @0D00A8@ in the master
    processor and L = @0D00A0@ in the slave processor.

GISMO   (Compile Date: 01/13/83)   FCF 031-0175-SEG001
GISMO/DEBUG
GISMO/SA Version @10003737@

This version contains two changes:

1. It eliminates a WAITING FOR I/O COMPLETE program hang when a
    double-document exception occurs for a program accessing a
    Reader/Sorter device.

2. It facilitates implementation of a future product.

In order to perform a clear/start operation, GISMO Version
@10003737@ must be used with a MCP at Patch level #87 or higher.

GISMO   (Compile Date: 01/13/83)
GISMO/DEBUG
GISMO/SA Version @10003838@

This version eliminates a system loop when performing a
clear/start operation on a dual processor system with the
GISMO/DEBUG trace flags (TG input message) set.

This problem was introduced with GISMO Version @10003737@.

GISMO   (Compile Date: 01/13/83)   FCF 675-0045-540039
GISMO/DEBUG
GISMO/SA Version @10003939@

This version contains two changes:

1. It eliminates the problem of COBOL74 programs using the
    interprogram communication feature (IPC) running much more
    slowly on dual processor systems under the Mark 10.0 system
    software.

2. It eliminates the problem of the MCPII/MICRO.MCP program
    running when there was nothing for it to do because the MMCP
    communicate queue event was not reset properly.

GISMO   (Compile Date: 01/13/83)
GISMO/DEBUG
GISMO/SA Version @10004040@

This version eliminates a problem where one or more jobs were
hung with status equal WAITING OVERLAY. The problem only existed
in Version @10003939@ of GISMO/DEBUG.

GISMO   (Compile Date: 01/13/83)
GISMO/DEBUG
GISMO/SA Version @10004141@

This version provides an enhancement for a future product.

GISMO   (Compile Date: 01/13/83)
GISMO/DEBUG
GISMO/SA Version @10004242@

This version eliminates various halts on dual processor systems
running with GISMO only. The most common halt was the slave
processor halting with service request received from a missing
channel (L=@0D0060@).

HASP Patch #4   (Compile Date: 10/12/82)

This patch implements the EOP.CHANNEL parameter and must be used
with patch #2 to the HASP/MODIFIER program.

Refer to the HASP/MODIFIER patch descriptions for a description
of the EOP.CHANNEL parameter.

HASP Patch #5   (Compile date: 10/12/82)

This patch containes several fixes and one enhancement.

This version of the HASP program must be used with HASP/MODIFIER
Patch #3 and HASP/SPOOL Patch #2.

Problem Resolutions

1. The GO n command now locates a secondary file that is
    initially missing and later loaded to disk.
    FCF 142-1340-NAS050

2. The HASP program no longer prints invalid characters.
    FCF 010-0946-479ALB
    FCF 005-1069-040282

3. The HASP program no longer aborts when an .SD = <filename>
    command is incorrectly entered.
    FCF 400-0000-80M036

4. The HASP program now permits a sign on to remote systems
    using the IBM RSCSII (a HASP compatible superset).
    FCF 022-0060-ATU001

Enhancment

The PR command has been added to the HASP program to enable users
to direct the output of a HASP stream to a designated line
printer. The line printer is reserved for the exclusive use of
the specified HASP stream. A example of the use for this feature
is output requiring special forms.

Syntax:

```
.PR<n> -------- OPEN --- LP<m> --------------------------------------!
               !                            !
               !-- CLOSE ---------------!
```


Semantics:

<n>
    An integer value from 0 to the value of the MAX.PRT HASP
    parameter that specifies the stream number.

OPEN
    The OPEN keyword specifies that the stream is to be directed
    to the line printer specified by the LP<m> keyword.

LP<m>
    The LP<m> keyword specifies the line printer to which the
    output is to be directed. <m> must be a letter from A to G.

CLOSE
    The CLOSE keyword specifies that the print file is to be
    closed and the line printer released.

Example:

The following steps are performed to print checks on the line
printer. In this example, the line printer is assumed to be LPB
and the stream to be stream 2.

1. Using the IBM host system commands, schedule printing of a
   check file on stream 2.

2. Assign stream 2 to LPB by entering the following HASP
   command at the ODT:

       <HASP mix number> AX.PR2 OPEN LPB

3. Using the IBM host system commands, print all check files on
   stream 2.

4. When the check printing has completed, close the print file
   and release the line printer by entering the following HASP
   command at the ODT:

       <HASP mix number> AX.PR2 CLOSE

Program Messages:

The following messages have been added to the HASP program:

NON NUMERIC STREAM NUMBER
    The stream number in the PR<n> command was not numeric.

INVALID STREAM NUMBER
    The stream number in the PR<n> command was not in the range
    0 to the value of the MAX.PRT HASP parameter.

FILE CANNOT BE CLOSED
    This message is displayed after a PR<n> CLOSE command if the
    file cannot be closed. The PR<n> CLOSE command can only
    close a file only if it was opened with a PR<n> OPEN LP<m>
    command.

INVALID UNIT NAME
    The unit mnemonic <m> entered in the PR<n> OPEN LP<m> was
    invalid. The unit mnemonic <m> must be in the range A to G.

OPEN OR CLOSE EXPECTED
    This message is displayed if the keyword following PR<n> is
    not OPEN or CLOSE.

HASP/MODIFIER Patches #1 and #2 (Compile Date: 10/12/82)

This patch implements the EOP.CHANNEL parameter. The EOP.CHANNEL
parameter restricts the performing of a skip to channel 12
operation for printer output. It is intended for use with the B
9246 (band) printers which do not permit a skip to channel 12
operation. The syntax for the EOP.CHANNEL parameter is:

EOP.CHANNEL = <n>

where <n> is a channel number between one and twelve. When a
skip to channel 12 carriage control code is encountered by the
HASP or HASP/SPOOL programs, it is converted to a skip to channel
<n>, where <n> is the value entered for the EOP.CHANNEL
parameter. This conversion of the skip to channel 12 carriage
control codes is performed for all printers.

The default value for the EOP.CHANNEL parameter is twelve.

This version of the HASP/MODIFIER program must be used with patch
#4 to the HASP program and patch #1 to the HASP/SPOOL program.

HASP/MODIFIER Patch #3   (Compile Date: 10/12/82)

This patch must be used with HASP Patch #5 and HASP/SPOOL Patch
#2.

HASP/SPOOL Patch #1   (Compile Date: 10/12/82)

This patch implements the EOP.CHANNEL parameter and must be used
with patch #2 to the HASP/MODIFIER program.

Refer to the HASP/MODIFIER patch descriptions for a description
of the EOP.CHANNEL parameter.

HASP/SPOOL Patch #2   (Compile Date: 10/12/82)

This patch must be used with HASP patch #5 and HASP/MODIFIER
patch #3.

MCPII Patch #42   (Compile Date: 02/07/83)   FCF 758-1900-000046

This patch eliminates a L = @0D0022@ system halt when executing
the DISKETTE/COPY utility program.

MCPII Patch #43   (Compile Date: 02/07/83)   FCF 013-0338-DG0247

This patch eliminates a L = @000011@, T = @211641@ system halt
when a COBOL74 program with a communication section performs an
initial receive operation.

MCPII Patch #44   (Compile Date: 02/07/83)

This patch eliminates the failure to write end-of-file records
when closing a labeled tape file that had an irrecoverable write
parity error.

MCPII Patch #45   (Compile Date: 02/07/83)   FCF 500-0001-014009

This patch eliminates a L = @00000A@ system halt (divide by
zero). The halt occurs in the sort interface. It is caused by a
COBOL74 program performing an open operation on a variable-length
record disk file and the MAXRECSIZE file attribute does not agree
with the actual record size of the file.

MCPII Patch #46   (Compile Date: 02/07/83)   FCF 031-0041-GHK052

This patch eliminates a network controller looping problem when
the Message Control System (MCS) is waiting for a remote file to
be opened. The system responded to MX and WY inquiries but
terminal response time was 4 to 5 minutes.

MCPII Patch #47   (Compile Date: 02/07/83)   FCF 031-1026-CCS002

This patch eliminates various system halts and uninterruptible
system loops after an OK input message is issued for a job whose
status is WAIT.

MCPII Patch #48   (Compile Date: 02/07/83)   FCF 004-0200-NMS012

This patch eliminates a L = @0D0022@ system halt when attempting
to write ending labels on a tape file assigned to a 7-track tape
unit. If the tape unit is not ready or if a timeout error occurs
on a write operation to the tape unit, the system halts.

MCPII Patch #49   (Compile Date: 02/07/83)   FCF 031-1026-CCS003

This patch eliminates an interruptible system loop when the
SYSTEM/COPY program performs a backspace operation on a tape
file.

MCPII Patch #50   (Compile Date: 02/07/83)   FCF 690-0972-509088

With this patch a program no longer incorrectly resumes execution
after being stopped with a ST input message.

MCPII Patch #51   (Compile Date: 02/07/83)

With this patch a program waiting for an available line printer
automatically resumes execution when a line printer is made
ready.

MCPII Patch #52   (Compile Date: 02/07/83)   FCF 013-0338-RH1024

This patch eliminates an interruptible system loop when a station
is connected by way of the BNA station transfer function and a
"NET- NOW" command is entered on the same system as the connected
station.

MCPII Patch #53   (Compile Date: 02/07/83)   FCF 505-0901-804702

This patch permits the RECORDS.BLOCK file attribute of a printer
backup tape file to have a value greater than 5.

MCPII Patch #54   (Compile Date: 02/07/83)

This patch is being made to facilitate implementation of a future
product.

MCPII Patch #55   (Compile Date: 02/07/83)   FCF 062-1042-DS1207

This patch prevents the automatic loading of an invalid print
train when a line printer is made not ready during the printing
of the ending label of a print file.

MCPII Patch #56   (Compile Date: 02/07/83)   FCF 021-0653-MAMS99

This patch eliminates a L = @0D0044@ halt on a dual processor
system when a program reads from or writes to a disk file whose
access type is DELAYED.RANDOM.

MCPII Patch #57   (Compile Date: 02/07/83)   FCF 021-1069-BSDMS1

This patch eliminates the loss of one or more audit buffers after
a NO DISK SPACE AVAILABLE output message is displayed for a DMSII
audit file area, the system operator enters an OK input message,
and the MCP rejects the message.

With this patch, the audit file is closed and reopened
automatically, thus giving the system operator the opportunity to
copy the old file, or assign the new file to a different unit.

MCPII Patch #58   (Compile Date: 02/07/83)

This patch eliminates a system loop (using GISMO) or a L =
@0D0044@ system halt (using GISMO/DEBUG) when a program reads
from or writes to a tape file which has more than one buffer and
encounters an irrecoverable error.

MCPII Patch #59   (Compile Date: 02/07/83)   FCF 031-1013-HM9125

With this patch the RECORD.SIZE file attribute of a backup file
is correctly set. The problem arises after the file is assigned
to a disk by use of the OU input message because an attempt had
been made to open the file on a disk that was not on line.
Subsequently, the RECORD.SIZE file attribute is incorrectly
increased by two bytes.

MCPII Patch #60   (Compile Date: 02/07/83)   FCF 031-0844-UDP007

This patch eliminates the COBOL74 program abort when a COBOL74
program is writing to a backup tape file and the end of the tape
reel is reached. The program abort message is REQUESTED WRITE ON
CLOSED FILE.

MCPII Patch #61   (Compile Date: 02/07/83)

This patch is being made to facilitate implementation of a future
product.

MCPII Patch #62   (Compile Date: 02/07/83)   FCF 053-0201-813514

This patch permits the PB input message to find a backup file on
the user disk designated by the BD input message.

MCPII Patch #63   (Compile Date: 02/07/83)

This patch eliminates L=@0D0022@ halts and various other problems
when disk input/output operations for either DMSII buffers or
readying a removeable disk do not complete in 30 seconds. Before
this patch, execution resumed even though the input/output
operation did not complete. With this patch, no halt occurs;
execution is suspended until the operation completes.

MCPII Patch #64   (Compile Date: 02/07/83)   FCF 032-0283-LCC006

This patch eliminates a L=@000011@, T=@086502@ system halt when
space is not available for an COBOL74 index sequential fine
table.

MCPII Patch #65   (Compile Date: 02/07/83)   FCF 273-1959-DM0004

This patch eliminates a SYSTEM/COPY program abort when copying
files from tape to disk. The program abort message is MISSING
TAPE MARK.

MCPII Patch #66   (Compile Date: 02/07/83)

This patch eliminates possible corruption of a COBOL74 global
file when an index sequential file was open at the time of a
system halt. The next program to open the file was discontinued
with the message FILE DESCRIPTION FOR ... LABELED ... IS
INCOMPATIBLE WITH FILE ON DISK.

MCPII Patch #67   (Compile Date: 02/07/83)   FCF 675-0113-500619

This patch eliminates corruption of a COBOL74 index sequential
file when copying the file with the SYSTEM/COPY program.

In order to complete this correction, SYSTEM/COPY Patch #3 must
be used.

MCPII Patch #68   (Compile Date: 02/07/83)   FCF 012-0089-BUSD01

This patch eliminates system halts L=@000011@, T=@080539@ and
L=@000011@, T=@080691. These halts occur while splitting tables
for COBOL74 index sequential files.

MCPII Patch #69   (Compile Date: 02/07/83)

This patch is a member of a set which includes:

        DUMP/ANALYZER Patch #4
        MCPII Patches #69 and #94
        MCPII/ANALYZER Patch #2
        MCPII/MICRO.MCP Version @10002929@
        NDL/LIBRARY Patch #2
        NDL/MACRO Patch #6

This set of patches provides an enhancement by completing the
implementation of the Communication module in COBOL74. The
Communication module provides the ability to access, process, and
create messages or portions thereof. It provides the ability to
communicate through a Message Control System with local and
remote communication devices.

In order to complete this enhancement, the network controller
must be recompiled using NDL/LIBRARY Patch #2 and NDL/MACRO Patch
#6.

In order to analyze dumps associated with this enhancement,
DUMP/ANALYZER Patch #4 and MCPII/ANALYZER Patch #2 must be used.

In order to perform a clear/start operation, MCPII Patch #69 must
be used with a MICRO.MCP at Version @10002929@ or later.

The features which were added include the ability to:

1.   Start a program with a CD for INITIAL INPUT when a message
      is received.

2.   Place a message from an input device into one of eight
      possible queues based on part of that message.

3.   Select message from one of eight possible queues when the
      RECEIVE statement specifies a CD which has blank subqueue
      names. If the queue name is also blank, an error results.

4.   RECEIVE messages from a queue when the message size is
      greater than the size of the receiving area referenced by
      identifier-1. The message fills the area referenced by
      identifier-1 left to right starting with the leftmost
      character of the message. The remainder of the message can
      be transferred to the area referenced by identifier-1 with
      subsequent RECEIVE statements referring to the same queue,
      sub-queue, etc. Note that the remainder of the message is
      treated as a new message.

5. SEND messages to a receiving communication device which is oriented to a fixed line size when the message size is greater than the size of the physical line. Excess characters of a message are not truncated. Characters are packed to a size equal to that of the physical line and then sent to the device. The process continues on the next line with the excess characters.

6. RECEIVE SEGMENT when requested and the queue contains a full message with or without end-of-segment (ESI) indicators.

7. SEND partial messages or message SEGMENTs to a queue waiting for an end-of-message (EMI) or end-of-group (EGI) before actually sending the message to the output device.

8. Allow data transfer between specified output queues and destinations or specified sources and input queues with the ENABLE statement.

9. Disallow data transfer between specified output queues and destinations or specified sources and input queues with the DISABLE statement. This capability includes forwarding a password to the Message Control System.

10. The MCS tally and toggle variables used to control the the skip and space functions in the network controller request procedures have been changed.

Function	After 69	Before 69
SKIP	TOG[7] = 1	TOG[2] = 1
SPACE	TOG[7] = 0	TOG[2] = 0
SKIP/SPACE count	TALLY[2]	TALLY[0]
SKIP/SPACE before	TOG[6] = 0	TOG[3] = 0
SKIP/SPACE after	TOG[6] = 1	TOG[3] = 1
counter	---	TALLY[2]

These fields are set by the MCP COBOL74 datacomm routines and are interpreted by the C74CANFSL, C74CANSEL, C74SELTCTD, or C74FSLTD COBOL74 request procedures in the network controller. Refer to the NDL/LIBRARY patch description for more information on these request procedures.

MCPII Patch #70   (Compile Date: 02/07/83)   FCF 023-0000-IPL371

This patch eliminates a L=@0D0055@ system halt when a program is waiting for a disk file which is not in the disk directory and then a tape or card file with the same name becomes ready.

MCPII Patch #71   (Compile Date: 02/07/83)

This patch is being made to facilitate implementation of a future product.

MCPII Patch #72   (Compile Date: 02/07/83)   FCF 053-0201-813511
                                                                FCF 061-1043-ATL001

This patch improves the response time of the SYSTEM/ODT program.

MCPII Patch #73   (Compile Date: 02/07/83)

With this patch, the left arrow (@07@) character in a ZIP input message from a teletypewriter is interpreted as a backspace character by the MCP.

MCPII Patch #74   (Compile Date: 02/07/83)   FCF 048-0062-NRMN01

This patch eliminates a SORT/VSORT program abort. The program abort message is NAME/VALUE STACK OVERFLOW.

MCPII Patch #75   (Compile Date: 02/07/83)

With this patch, COBOL74 index sequential file output buffers are written to disk anytime an update user, or the last user, closes the file.

Before this patch, the following sequence of events could have caused COBOL74 index sequential file corruption:

1.   Program A opens an ISAM file input/output.

2.   Program B opens the same ISAM file input.

3.   Program A updates the ISAM file and closes it.

4.   Program B still has the file open input.

5.   The ISAM file's output buffers are not yet written to disk and a CLEAR/START operation is performed (possibly following a system halt).

MCPII Patch #76   (Compile Date: 02/07/83)

This patch provides an enhancement for input/output operations on
magnetic tape control 6 when the number of buffers is greater
than 7. It also enables requests for reporting errors on a close
operation on an output tape file.

MCPII Patch #77   (Compile Date: 02/07/83)

This patch is being made to facilitate implementation of a future
product.

MCPII Patch #78   (Compile Date: 02/07/83)   FCF 143-0029-ADP001

This patch eliminates a L=@000011@, T=@043875 system halt when
accessing a reader/sorter device.

MCPII Patch #79   (Compile Date: 02/07/83)

This patch eliminates a problem where two programs are waiting
for a continuation pack for a multi-pack file, the pack is made
ready, the first program resumes processing, and the second
program requests an erroneous continuation pack.

MCPII Patch #80   (Compile Date: 02/07/83)   FCF 004-0200-SAI050

This patch eliminates a L=@000011@, T=@043875@ system halt when a
PB NAME/= input message is entered.

MCPII Patch #81   (Compile Date: 02/07/83)   FCF 023-0000-STL008

This patch enables the use of the AUDITED file attribute in a
FILE statement.

MCPII Patch #82   (Compile Date: 02/07/83)   FCF 005-0866-BC0011

This patch allows compilations to be done under usercodes whose
security level attribute is set to 1 or 2.

MCPII Patch #83   (Compile Date: 02/07/83)

This patch eliminates a L=@0D00A8@ system halt on dual processor
systems during a forward or backward space to tape mark
operation.

MCPII Patch #84   (Compile Date: 02/07/83)   FCF 042-0146-500093

This patch prevents removal of the SYSTEM/LOG file. Before this
patch, removal of the SYSTEM/LOG file was permitted and a
L=@000011@, T=@906900@ (missing log file) system halt ensued.

MCPII Patch #85   (Compile Date: 02/07/83)   FCF 031-0844-CMI046

This patch eliminates a L = @000009@ (invalid case) system halt
on a dual processor system during the deallocation of memory
segments.

MCPII Patch #86   (Compile Date: 02/07/83)   FCF 153-1020-COKE01

This patch eliminates a problem where DMS/INQUIRY would fail to
find any entries beyond the first entry when attempting to
display duplicate entries for a descending key or negative values
in an ascending key.

MCPII Patch #87   (Compile Date: 02/07/83)

This patch is being made to facilitate implementation of a future
product.

In order to perform a clear/start operation, MCPII Patch #87 must
be used with a GISMO at Version @10003737@ or later.

MCPII Patch #88   (Compile Date: 02/07/83)   FCF 023-0000-IPL389

This patch eliminates a L = @0D0044@ system halt when a program
accesses a tape file which has more than one buffer and
encounters an end-of-tape exception.

MCPII Patch #89   (Compile Date: 02/07/83)

With this patch, SYSTEM/COPY no longer fails to copy the global
file of a COBOL74 ISAM file when the following sequence of events
takes place:

1.   A COBOL74 ISAM file is opened update by program A.

2.   The same file is opened input by program B.

3.   The file is closed by program A but remains open in program
      B.

4.   The file is copied using the SYSTEM/COPY program.

5.   The global file is not copied, a FILE IN USE message is
      given instead, the data and key files are copied.

MCPII Patch #90   (Compile Date: 02/07/83)   FCF 612-0001-820016

With this patch, COBOL74 ISAM key files are no longer copied
incorrectly and corrupted by the SYSTEM/COPY program.

In order to complete this correction, SYSTEM/COPY Patch #5 must
be used.

MCPII Patch #91   (Compile Date: 02/07/83)   FCF 152-1012-LND058
                                                          FCF 152-1012-LND059

This patch eliminates two problems:

1.   A system loop after a "WARNING: RET.DISK.EN.MASSE GOT
      ADDRESS NOT ONLINE ... " message.

2.   A system halt with L = @000011@, T = @043875.

These problems arose after a program had performed a CLOSE WITH
CRUNCH operation on a file with variable length records.

MCPII Patch #92   (Compile Date: 02/07/83)

This patch provides a performance enhancement. With this patch,
when a memory segment is deallocated and made available to the
system, it is combined with adjacent available memory segments.

Note that, even with this patch, the hexadecimal system memory
dump may still show adjacent available memory segments. Only the
routine that deallocates memory segments was changed. The
routine that allocates memory segments may reallocate 8000 bytes

of a 10000 byte overlayable segment, leaving the remaining 2000
bytes bytes as a separate, available memory segment. That
routine was not changed to combine adjacent available segments.

MCPII Patch #93   (Compile Date: 02/07/83)   FCF 705-0014-001017

This patch eliminates a problem of losing a new entry in a DMSII
index sequential set or subset. The problem arose when one
program attempted to add an entry and another program was
simultaneously deleting the last entry, leaving the set empty.

MCPII Patch #94   (Compile Date: 02/07/83)   FCF 031-0844-SAF015

This patch eliminates a L = @0D0055@ system halt and also a
system hang when a COBOL74 program with an input communication
description structure (CD) goes to beginning of job (BOJ). This
problem was introduced with Mark 10.0 MCPII Patch #69.

MCPII Patch #95   (Compile Date: 02/07/83)   FCF 003-0228-021982
                                                       FCF 142-1340-CC0426

This patch eliminates a L = @000007@ system halt when the
SYSTEM/COPY program attempts to copy a disk file with no areas
allocated but a non-zero end of file pointer.

MCPII Patch #96   (Compile Date: 02/07/83)   FCF 758-1900-000058
                                                       FCF 758-1900-000059

This patch eliminates a L = @0D0055@ system halt and other errors
that occur when performing sequential read operations on a
COBOL74 index-sequential file. The problem arises when the first
block in an index-sequential index file is not an active fine
table block.

This correction is completed with MCPII Patch #101.

MCPII Patch #97   (Compile Date: 02/07/83)

Before this patch, a DMSII program hung WAITING SYNCPOINT when
the following sequence of events occurred:

1.   An END-TRANSACTION sync operation was performed.

2.   An auditfile exception prevented the syncpoint from being
     processed immediately.

3.   A program abort occurred.

With this patch, the program receives the ABORT exception.

MCPII Patch #98   (Compile Date: 02/07/83)   FCF 031-0844-UPD008

Before this patch, when a COBOL74 program which contained a USE
AFTER STANDARD EXCEPTION PROCEDURE ... statement performed a
read operation on a tape file and received a parity exception,
control was transferred to the AT END imperative statement
instead of to the USE procedure specified for the file. The
problem occurred because the values for AT END and PERMANENT
ERROR in the FILE STATUS data item were switched. COBOL68
programs did not have this problem.

With this patch, control is transferred to the USE procedure
specified for the file.

MCPII Patch #99   (Compile Date: 02/07/83)

This patch eliminates the problem of a DMSII program receiving an
unnecessary DEADLOCK exception. The problem arose when the
program was waiting for SYNCPOINT as a result of an explicit
END-TRANSACTION WITH SYNC operation and other programs in
transaction states encountered contention which was unrelated to
the first program.

MCPII Patch #100   (Compile Date: 02/07/83)

Before this patch, system halts or loss of audit blocks occurred
when an audit buffer overflowed.

With this patch, the following three system halts are added to
trap inconsistencies in handling audit overflow:

1.   L = @000011@, T = @641652@.

2.   L = @000011@, T = @750136@.

3.   L = @000011@, T = @750208@.

MCPII Patch #101   (Compile Date: 02/07/83)   FCF 758-1900-000058
                                                            FCF 758-1900-000059

This patch completes the correction begun with MCPII Patch #96.

This patch eliminates a L = @0D0055@ system halt and other errors
that occur when performing sequential read operations on a
COBOL74 index-sequential file. The problem arises when the first
block in an index-sequential index file is not an active fine
table block. The problem also occurs when the index-sequential
file is small enough to have only one index record and no coarse
table.

MCPII Patch #102   (Compile Date: 02/07/83)   FCF 144-1360-WI0030

This patch eliminates a problem where a RPGII program is
accessing a COBOL74 style index-sequential file and the LR
indicator is set on incorrectly. The problem occurs when the
same index-sequential file is defined as both input primary and
input demand and the program reads the last record of the demand
file. At that time the LR indicator is set on for the primary
file even though the program has not read the last record of the
primary file.

In order to perform a clear/start operation, MCPII Patch #102
must be used with a MICRO.MCP at Version @10003232@ or later.

MCPII Patch #103   (Compile Date: 02/07/83)

With this patch, the ODT QUEUE portion of a system memory dump is
now correctly printed in the dump analysis listing.

MCPII Patch #104   (Compile Date: 02/07/83)

This patch is being made to facilitate implementation of a future
product.

MCPII Patch #105   (Compile Date: 02/07/83)

Before this patch, when a timeout exception occurred during a
non-user write operation to a magnetic tape unit, the MCPII wrote
a warning message on the ODT and made an entry in the system
maintenance file (ELOG) but did not retry the write operation.
This meant that labels, headers, end of files, or end of volumes
could be written to tape with missing records or missing tape
marks. As a result, the tape could not be read successfully
later.

With this patch, the write operation is retried.

MCPII Patch #106   (Compile Date: 02/07/83)   FCF 012-0749-SAM005

This patch addresses the problem of premature transfer of log
files. This patch modifies a L=@000011@, T=@907985@ system halt
that subsequently forced a cold/start operation because a
clear/start operation could not complete following the halt. The
problem arose when the SWC system option was set for the purpose
of locating the log file transfer problem.

With this patch, a clear/start operation is possible following
the system halt and locating the log file transfer problem is
facilitated.

MCPII Patch #107   (Compile Date: 02/07/83)   FCF 010-0946-450ANG
                                                          FCF 010-0946-451ANG

This patch eliminates a problem where an index sequential file
with more than 19 keys could not be opened. Two program abort
messages that ensued were FILE DESCRIPTION DOES NOT MATCH FILE ON
DISK and AREA REQUESTED BY COMPILER FOR I/S FILE WAS NOT LARGE
ENOUGH.

MCPII Patch #108   (Compile Date: 02/07/83)   FCF 675-0080-540036

This patch eliminates various system halts that occur sometime
after a message of the form PE TAPE REQUIRED FOR "BACKUP/nnnn"
REEL #n appears on the ODT.

MCPII Patch #109   (Compile Date: 02/07/83)   FCF 054-0028-EBA001
                                                          FCF 144-1360-EBA002

Before this patch, when an OU input message was entered to direct
a backup file to a disk other than the disk designated by the BD
input message, the backup file went to the backup designated disk
and the OU input message was ignored.

With this patch, the backup file goes to the disk specified by
the OU input message.

MCPII Patch #110   (Compile Date: 02/07/83)   FCF 705-0053-001106

This patch eliminates a problem that arose when a new, multiple
area disk file was opened with PROTECTION = SAVE. The second
file area was incorrectly allocated first.

MCPII Patch #111   (Compile Date: 02/07/83)   FCF 144-1360-RF0702

This patch eliminates a problem that arose when a program got a
DUPLICATE LIBRARY message on a DMSII audit file or when an audit
file could not be locked in the disk directory because of
insufficient disk space for the first area. When either of these
conditions arose, the audit file was corrupted and the pack on
which the condition occurred could not be powered down until a
clear/start operation was performed.

MCPII Patch #112   (Compile Date: 02/07/83)   FCF 151-1018-IPM010

This patch eliminates a BNA problem that caused a DUMP/ANALYZER
program abort. The problem occurred when the DUMP/ANALYZER print
file was directed to another host computer system.

MCPII Patch #113   (Compile Date: 02/07/83)

This patch addresses the problem of various system halts that
occur after one MCP procedure returns a disk area to permit its
use by other procedures and later reuses the same disk area. To
prevent this reuse, the field which contained the disk area
address is filled with zeros.

With this patch, locating the procedure which reuses a returned
disk area is facilitated.

This patch is completed with the second portion of MCPII Patch
#142.

MCPII Patch #114   (Compile Date: 02/07/83)   FCF 153-1017-PEP005

This patch eliminates a problem where a program using remote
files with simple headers cannot send messages to a participating
Message Control System (MCS).

In order to perform a clear/start operation, MCPII Patch #114
must be used with a MICRO.MCP at Version @10003434@ or later.

MCPII Patch #115   (Compile Date: 02/07/83)   FCF 013-0338-BL0003

With this patch, when an OPEN EXTEND operation is performed on a
disk file, the file is no longer locked from use by other
programs.

MCPII Patch #116   (Compile Date: 02/07/83)   FCF 650-0001-525020

This patch eliminates a problem which caused COBOL74 index
sequential files to have missing records or caused other
unpredictable results. The problem arose after deleting records
produced empty index blocks and then adding records required
table splits.

MCPII Patch #117   (Compile Date: 02/07/83)   FCF 149-1013-TSU918

This patch permits a program running under a usercode with a
security level greater than zero to read a card file in a pseudo
reader.

MCPII Patch #118   (Compile Date: 02/07/83)

With this patch, when an error occurs during a read or write
operation on a 207 disk drive, result descriptors and extended
result descriptors are recorded in the SYSTEM/ELOG file.

MCPII Patch #119   (Compile Date: 02/07/83)   FCF 013-0338-JMB203
                                                        FCF 010-0946-537NGB

This patch eliminates a L = @000011@, T = @084501@ system halt
associated with accessing a COBOL74 index sequential file. The
problem arose when the MCP was attempting to update coarse tables
for a file that contained a large number of duplicate keys.

MCPII Patch #120   (Compile Date: 02/07/83)   FCF 675-0046-540006

This patch eliminates a L = @0D0055@ system halt after entering a
DS command for a COBOL74 program which was accessing a data base
and which had called another COBOL74 program and passed
parameters.

MCPII Patch #121   (Compile Date: 02/07/83)   FCF 151-0831-EI0010

With this patch, an OPEN EXTEND operation is permitted on a
multiple pack file.

MCPII Patch #122   (Compile Date: 02/07/83)   FCF 023-0000-NES086

With this patch, an OF command is rejected for a job which is
waiting for the second reel of a multiple reel tape file.

MCPII Patch #123   (Compile Date: 02/07/83)

This patch facilitates implementation of a future product.

MCPII Patch #124   (Compile Date: 02/07/83)   FCF 149-1022-SSH057

This patch eliminates a program hang with status equal
TERMINATING when a DS command is entered for a program which had
a tape parity error.

MCPII Patch #125   (Compile Date: 02/07/83)   FCF 731-0000-810001

This patch eliminates a problem where an extra blank line is
printed following the label for a printer backup file whose
record size is 131 bytes.

MCPII Patch #126   (Compile Date: 02/07/83)   FCF 023-0000-IPL385
                                                        FCF 041-0240-000155

This patch eliminates a L = @000006@ system halt or a program
hang with status equal TERMINATING. The problem arose after an
OF input message was entered in response to a FILE NOT PRESENT
message.

MCPII Patch #127   (Compile Date: 02/07/83)   FCF 142-1370-KHPB01

Before this patch, when two printers were in a not ready state
and the system operator entered a command of the form PB 1 LPA;
PB 2 LPB; both jobs would begin and then hang with status equal
NEEDS HARDWARE FOR FILE ... . If the operator entered a RY LPB
command, the MCP would locate the first job in the mix which was
waiting for a printer and cause it to resume execution. In this
case, it would locate the job which wanted LPA, LPA would still
be unavailable, and the MCP would stop its search.

With this patch, when a hardware device becomes available, the
MCP attempts to cause all jobs waiting for that kind of hardware
to resume execution.

MCPII Patch #128   (Compile Date: 02/07/83)   FCF 051-0000-RWB012

With this patch, when a tape parity error is encountered during a
read backward operation, the tape is left at the proper position.
As a result, if a data base audit tape is written with bad parity
during a system halt due to a power failure, the clear/start
recovery process can access the data that was written before the
parity error occurred.

MCPII Patch #129   (Compile Date: 02/07/83)   FCF 077-0491-PPD002

With this patch, a NOT READY exception is reported to a user
program that has an ON EXCEPTION clause. As a result, the user
program can attempt corrective action to save the information in
the record. The user must be aware, however, that there is no
way to tell if tape motion occurred before the exception. Block
count errors may exist on a tape that had NOT READY exceptions.

MCPII Patch #130   (Compile Date: 02/07/83)   FCF 750-0000-400107

Before this patch, when a program was hung with status equal
WAITING BEGINNING LABEL, the response to a WY command could
contain the wrong file name. This patch eliminates that problem.

MCPII Patch #131   (Compile Date: 02/07/83)   FCF 149-1016-LDMK10

This patch eliminates a L = @000011@, T = @273643@ system halt
during a squash operation on a user disk.

MCPII Patch #132   (Compile Date: 02/07/83)   FCF 041-0240-000170

This patch eliminates a problem of a security violaton during an
open operation on the work file of the sort routine. The problem
arose when a program running under a non-priviledged user code
with security level 1 or 2 called the sort routine.

MCPII Patch #133   (Compile Date: 02/07/83)   FCF 705-0000-001123

This patch eliminates a L = @000009@ system halt when accessing
an index-sequential data file modified for relative access. The
proper way to read such a file is with a relative I/O communicate
read With this patch, when a normal read communicate is used to
access the file, the message INVALID COMMUNICATE appears and the
program is discontinued.

In order to perform a clear/start operation, MCPII Patch #133
must be used with a MICRO.MCP at Version @10003434@ or later.

MCPII Patch #134   (Compile Date: 02/07/83)   FCF 023-0000-ALC091

This patch addresses the problem of a L = @0D0055@ system halt
that occurs because a field in lower memory containing the disk
file header directory address is corrupt. When the corruption is
detected, the system halts with L = @000011@ and T = @996050@.

With this patch, locating the problem that caused the corruption
is facilitated.

MCPII Patch #135   (Compile Date: 02/07/83)   FCF 023-0000-TON091

With this patch, when an irrecoverable error occurs while writing
ending labels on a tape, the program performing the write
operation is discontinued.

MCPII Patch #136   (Compile Date: 02/07/83)   FCF 908-0243-ISG002

With this patch, a command of the form PB PID/MFID/FID works
correctly.

MCPII Patch #137   (Compile Date: 02/07/83)   FCF 758-1900-N00077

This patch eliminates various system halts that followed an open
for output operation on a relative file with one block per area.

MCPII Patch #138   (Compile Date: 02/07/83)   FCF 106-1314-DPDW01

This patch eliminates a L = @0D0055@ system halt following the
transfer of either the SYSTEM/LOG file or the SYSTEM/ELOG file.

MCPII Patch #139   (Compile Date: 02/07/83)   FCF 728-0000-N00014

Before this patch, when a pair of commands of the form:

    EXECUTE A/B/C;AFTER A/D/E
    EXECUTE   X/Y;AFTER   D/E

were entered, and then program A/D/E ended, both programs A/B/C
and X/Y began.

With this patch, only program A/B/C begins when program A/D/E
ends. Program X/Y waits until after program D/E ends before it
begins.

MCPII Patch #140   (Compile Date: 02/07/83)   FCF 172-1472-POEIS1

This patch eliminates erroneous FILE LOCKED conditions when more
than one program opened the same COBOL74 index sequential file.

MCPII Patch #141   (Compile Date: 02/07/83)

This patch enables the BOLT program to access magnetic tape
units.

MCPII Patch #142   (Compile Date: 02/07/83)   FCF 032-0831-CCS130

This patch eliminates a problem where the SYSTEM/ELOG file was
transferred before it was full.

This patch also addresses the problem of various system halts
that occur after one MCP procedure returns a disk area to permit
its use by other procedures and later reuses the same disk area.
To prevent this reuse, the field which contained the disk area
address is filled with zeros.

With this patch, locating the procedure which reuses a returned
disk area is facilitated.

This second portion of the patch completes the changes begun with
MCPII Patch #113

MCPII Patch #143   (Compile Date: 02/07/83)

This patch modifies a L = @000011@, T = @273643@ system halt when
a disk area is returned to the working available table and, due
to some error condition, the area is already in the table.

With this patch, the following message appears on the ODT.

WARNING: RET.DISK.EN.MASSE HAS AN OVERLAPPING ADDRESS AT pcussssss
FOR nnnnn SEGMENTS.

and the system halts.

NOTE that this system halt can now be pushed through by pressing
the START button.

MCPII Patch #144   (Compile Date: 02/07/83)   FCF 724-0143-NM0018

Whenever an I/O error occurs on a model 206 disk pack unit, the
error recovery procedure includes a sector by sector retry of the
operation.

With this patch, if any sector receives a fatal error exception
during the retry process, the recovery procedure terminates and
an entry is made in the SYSTEM/ELOG file indicating an
irrecoverable error occurred.

MCPII Patch #145   (Compile Date: 02/07/83)

This patch provides an enhancement for a future product.

MCPII Patch #146   (Compile Date: 02/07/83)

This patch enhances the MH command. The syntax and semantics
follows:

Syntax:

    MH <filename> FILE.TYPE ------------- <type> --------------------!
                    -   - -   !   !
                            !-- = --!

Semantics:

  filename
      This field can be any valid disk file name and specifies the
      file to be modified.

  type
      This field can be any of the following file types:

    BASIC   DATA   MIL   SDL
    COBOL   FORTRAN   NDL   SDL2
    COBOL74   FORTRAN77   PASCAL   SEQD
    DASDL   IBASIC   RPG   SORT

MCPII Patch #147   (Compile Date: 02/07/83)   FCF 154-1372-FSC002
                                                        FCF 043-1035-091782

This patch addresses the problems of a L = @0D0055@ system halt
and a L = @000011@, T = @107780@ system halt that occur when the
MCP code segment dictionary entry for page 6 segment 11 was
corrupted. When the corruption is detected, the system halts
with L = @000011@ and T = @109507@.

With this patch, locating the problem that causes the corruption
is facilitated.

MCPII Patch #148   (Compile Date: 02/07/83)

Whenever an initial disk I/O error exception occurs that has an
extended result descriptor associated with it, that extended
result descriptor is written to the SYSTEM/ELOG file.

With this patch, during the sector by sector retry process, if
any error exception occurs that has an extended result descriptor
associated with it, that extended result descriptor is also
written to the SYSTEM/ELOG file.

MCPII Patch #149   (Compile Date: 02/07/83)

This patch eliminates a DMS problem that was introduced in the
Mark 9.1 MCP. An incorrect overflow table link was put into the
audit trail for index random structures. The problem would only
be visible in the data base if the table split that produced the
overflow condition was backed out by recovery.

MCPII Patch #150   (Compile Date: 02/07/83)

This patch eliminates a problem where end of file is reported
prematurely when reading a disk file. The problem only arises
when the program reading the disk file specifies values for the
record size and records per block file attributes which are
different from the values in the disk file header and, as a
result, the FIB.PARTIAL_BLOCK_SIZE was calculated incorrectly.

MCPII Patch #151   (Compile Date: 02/07/83)   FCF 023-0000-FSI007

This patch eliminates various system halts and system hangs that
occur as a result of a DMS store operation. When an entry is
added to a DMS ordered list and the entry would have been placed
at the front of a table which was full, the entry may be placed
in a prior table which is not yet full.

Before this patch, the current pointer erroneously pointed to the
full table instead of the prior table where the entry was placed.
If a find next operation was performed on the list, an incorrect
record was returned or valid records were skipped. If the find
next operation returned an incorrect record from the full table,
an attempt to delete that record destroyed system memory links,
causing various system halts and system hangs.

With this patch, the following tests are performed.

1. The value of the entry count is tested for being greater than zero and less than or equal to the maximum number of entries allowed for the structure.

2. When deleting a list table, the pointers to any related table are tested for validity.

If either of these tests fails, an Integrity Error exception is generated identifying the tables in error and the structure number of the list. NOTE that Integrity Error messages are only displayed if the DBUG system option is set.

MCPII Patch #152   (Compile Date: 02/07/83)

This patch eliminates a SYSTEM/COPY program abort. The program abort message was MISSING TAPE MARK IN MF-SEARCH.

MCPII Patch #153   (Compile Date: 02/07/83)   FCF 013-0338-DG0249

This patch eliminates an erroneous tape block count error during a compare operation performed on a tape generated by the SYSTEM/COPY program.

MCPII Patch #154   (Compile Date: 02/07/83)   FCF 260-1827-HNB324

This patch eliminates a L = @0D0055@ halt that occurred during DMS processing on a dual processor system. During DMS deadlock analysis, the communicate verbs of programs in the contention chain are checked in order to adjust priorities. A small timing window existed where a program running on the slave processor could change its communicate status after its communicate reference variable had been established.

MCPII Patch #155   (Compile Date: 02/07/83)

This patch eliminates a small timing window during processing of a close operation on a tape file. Before this patch, the last partial block of a multiple buffered tape file might not have been written to the tape.

MCPII Patch #156   (Compile Date: 02/07/83)

This patch eliminates a problem introduced by patch #63. Patch
#63 did not handle disk parity error conditions correctly.

MCPII Patch #157   (Compile Date: 02/07/83)

This patch eliminates a read out of bounds halt (L=@0D0055@) when
a NDL communicate references a closed file.

MCPII Patch #158   (Compile Date: 02/07/83)

This patch eliminates a problem introduced by patch #134 where
the system would halt, L=@000011@, T=@996050@, after a system
disk squash.

MCPII Patch #159   (Compile Date: 02/07/83)

This patch eliminates memory corruption that could cause
unpredictable results when a program is being rolled into memory,
the rollin did not properly complete, and the last file declared
in the program is a remote file.

MCPII/ANALYZER Patch #2 (Compile Date: 12/14/82)

This patch is a member of a set which includes:

        DUMP/ANALYZER Patch #4
        MCPII Patches #69 and #94
        MCPII/ANALYZER Patch #2
        MCPII/MICRO.MCP Version @10002929@
        NDL/LIBRARY Patch #2
        NDL/MACRO Patch #6

This set of patches provides an enhancement by completing the
implementation of the Communication module in COBOL74. The
Communication module provides the ability to access, process, and
create messages or portions thereof. It provides the ability to
communicate through a Message Control System with local and
remote communication devices.

In order to analyze dumps associated with this enhancement,
DUMP/ANALYZER Patch #4 and MCPII/ANALYZER Patch #2 must be used.

MCPII/ANALYZER Patch #3   (Compile Date: 12/14/82)

With this patch, the MCPII/ANALYZER program now prints the
OPTIONAL FILE boolean in the FIB section and prints the GO EVENT
in the RSN section when analyzing a system memory dump file.

MCPII/ANALYZER Patch #4   (Compile Date: 12/14/82)   FCF 172-1472-POEIS1

The MCPII/ANALYZER program now prints the FIB_OPEN_LOCK and
FIB_OPEN_LOCKOUT fields to the common portion of the FIB to be
compatible with patch 140 to MCPII.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)   FCF 400-8201-80M836
MICRO.MCP/DEBUG Version @10002828@

This version contains two changes:

1.   It eliminates a L=@000011@, T=@063285 system halt when a
      COBOL74 program invalidly performs a rewrite operation on a
      file opened output.

2.   It eliminates a problem with a program attempting to wait a
      specified amount of time for an event to occur.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)
MICRO.MCP/DEBUG Version @10002929@

This patch is a member of a set which includes:

            DUMP/ANALYZER Patch #4
            MCPII Patches #69 and #94
            MCPII/ANALYZER Patch #2
            MCPII/MICRO.MCP Version @10002929@
            NDL/LIBRARY Patch #2
            NDL/MACRO Patch #6

This set of patches provides an enhancement by completing the
implementation of the Communication module in COBOL74. The
Communication module provides the ability to access, process, and
create messages or portions thereof. It provides the ability to
communicate through a Message Control System with local and
remote communication devices.

In order to analyze dumps associated with this enhancement,
DUMP/ANALYZER Patch #4 and MCPII/ANALYZER Patch #2 must be used.

In order to perform a clear/start operation, MICRO.MCP Version
@10002929@ must be used with a MCP at Patch level #69 or higher.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)   FCF 013-0338-GVL061
MICRO.MCP/DEBUG Version @10003030@

This version eliminates a program abort when a rewrite operation
follows a read operation on a file opened input/output. The
abort message is REWRITE MUST BE PRECEEDED BY A READ.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)   FCF 400-8062-820005
MICRO.MCP/DEBUG Version @10003131@

This version contains two changes:

1.   It eliminates an incorrect end-of-file indicator for an
      RPGII program when the following sequence of events occurs:

      a.   A SETLL operation code is performed to position a
            COBOL74-style index-sequential file.

      b.   The record pointer is set to the last record of a fine
            table.

      c.   A READ operation code is performed. When this READ
            operation code was performed, the end-of-file indicator
            in columns 58-59 of the Calculation Specifications was
            incorrectly set on.

2.   It eliminates an interruptible system loop when the
      following sequence of events occurs:

      a.   A program performs a read operation on a queue file
            family which has no message in any of its queues.

      b.   The program is suspended.

      c.   A message is placed in one of the queues.

      The program should resume execution but the system goes into
      a loop instead.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)   FCF 144-1360-WI0030

MICRO.MCP/DEBUG Version @10003232@

This version eliminates a problem where a RPGII program is
accessing a COBOL74 style index-sequential file and the LR
indicator is set on incorrectly. The problem occurs when the
same index-sequential file is defined as both input primary and
input demand and the program reads the last record of the demand
file. At that time the LR indicator is set on for the primary
file even though the program has not read the last record of the
primary file.

In order to perform a clear/start operation, MICRO.MCP Version
@10003232@ must be used with a MCPII at patch level #102 or
higher.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)
MICRO.MCP/DEBUG Version @10003333@   FCF 043-0444-081782

This version eliminates a problem where the current pointer for a
COBOL74 index sequential file is corrupted. The corruption
occurs when a RPGII program performs a SETLL operation code as
the first operation on the file.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)   FCF 153-1017-PEP005
MICRO.MCP/DEBUG Version @10003434@   FCF 053-0953-822361
                                                FCF 705-0000-001123

This version contains three changes:

1.   It eliminates a problem where a program using remote files
     with simple headers cannot send messages to a participating
     Message Control System (MCS).

2.   It eliminates a L = @0D0044@ system halt when accessing a
     delayed random file. The problem arose when an I/O
     descriptor that had been dispatched to GISMO from the SMCP
     was dispatched again to GISMO by the MMCP.

3.   It eliminates a L = @000009@ system halt when accessing an
     index-sequential data file modified for relative access.
     The proper way to read such a file is with a relative I/O
     communicate read (CT.VERB 65). With this patch, when a read
     communicate (CT.VERB 1) is used to access the file, the
     message INVALID COMMUNICATE appears and the program is
     discontinued.

In order to perform a clear/start operation, MICRO.MCP Version
@10003434@ must be used with a MCPII at Patch level #133 or
higher.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)   FCF 400-8062-800009
MICRO.MCP/DEBUG Version @10003535@

This version eliminates a program hang when a program performs a
write or rewrite operation on an index sequential file. A WY
command showed the program was executing when it actually was
hung.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)
MICRO.MCP/DEBUG Version @10003636@

This version eliminates an erroneous INVALID COMMUNICATE program
abort when a COBOL74 program executes a START statement. This
problem was introduced with MCPII/MICRO.MCP version @10003434@.

MCPII/MICRO.MCP   (Compile Date: 11/24/82)   FCF 273-1959-SS0002
MICRO.MCP/DEBUG Version @10003737@   FCF 063-0745-LTK001

This version contains two changes:

1.   Eliminates various halts when an SDL program that uses
     dynamic memory is executed with ME=0.

2.   Eliminates the "NO MEMORY AVAILABLE FOR INDEXED SEQ BUFFER"
     problem when ISAM buffers were erroneously locked in memory.

NDL/ADDRESS Re-release   (Creation Date: 10/02/82)

The re-release of the NDL/ADDRESS file is required for use with
patch #9 to NDL/MACRO.

NDL/DUMP Patch #2   (Compile Date: 03/29/82)

This patch is required for use with patch #6 to NDL/MACRO.

NDL/LIBRARY Patch #2   (Creation Date: 08/24/82)

With this patch several changes to the NDL/LIBRARY file have been
made. These changes are listed by the Request and/or Control
procedures that are affected.

This NDL/LIBRARY patch release must be used with patch #69 to
MCPII and patch #6 to NDL/MACRO.

CANDE Request and Control Procedures

This patch corrects the following for the CANDEPOLTD, CANDEFSLTD, and CANDESELTD Request procedures and for the CANDETDCTL Control procedure:

1. The CANDETDCTL Control procedure no longer selects a
    terminal again after the terminal had been autoselected in
    the poll string. This caused problems with the TC series
    terminals and with B 9348-50 (TD 850) terminals.
    FCF 724-0999-NM0024 FCF 032-1018-FCS004 and FCF
    041-0240-000138

2. A terminal declared as MYUSE = OUTPUT in the STATION Section
    now recovers if it is marked disabled by the network
    controller.
    FCF 675-0113-500401

    Terminals such as the AP 300 that send unsolicited status
    words should continue to be declared with
    MYUSE = INPUT,OUTPUT.

3. The time field in the MCS header is now set to the correct
    value. In the past the time field was set to zero.
    FCF 023-0000-HEL024

4. When attempting to establish a switched line, the CANDEPOLTD
    Request procedure now attempts to establish communication
    RETRY number of times before disconnecting the line. RETRY
    is defined in the STATION Section of the network controller.
    FCF 750-0000-400143

5. The problem where the autopoll operation was cancelled an
    excessive number of times is now corrected. This situation
    resulted in an unnecessary system overhead and occured
    frequently with MT 983 terminals.

6. The AUTOSELECT and FASTSELECT defines in the CANDEDEC
    declaraction have been removed in order to increase
    efficiency.

7. Various minor changes have been made to the CANDE Request
    and Control procedures in order to make them run more
    efficiently with the MT 983 terminals.

RJE3780

The following problems are corrected in the RJE3780RQS Request
procedure:

1. The RJE3780RQS Request procedure now correctly cancels line
    bids.
    FCF 705-0001-WB0182

2. The problem where the Request procedure responded
    incorrectly to a WACK resulting in a duplicate message has
    been corrected.
    FCF 149-1016-PFS001

Teletype

The READTTY Request procedure is now sensitive to a carriage
return character as an ending Control character.
FCF 022-0153-810009

Dynamic Control

The AUTODYNCTL Control procedure now correctly allows a message
Control system (MCS) to make a station ready.
FCF 021-0156-NART01

COBOL74 Request Procedures

Four new output Request procedures have been released that
integrate COBOL74 functions with the normal TC and TD terminal
output in conjunction with patch #69 to MCPII and patch #6 to
NDL/MACRO. These Request prodedures are:

    C74SELTCTD   =   (COBOL74 + SELECTCTD)
    C74FSLTCTD   =   (COBOL74 + FASTSELTCD)
    C74CANDFSL   =   (COBOL74 + CANDEFSLTD)
    C74CANDSEL   =   (COBOL74 + CABDESELTD)

These output Request procedures can be used in combination with
the following input Request and Control prcedures:

    Output Req.   Input Req.   Control
    -----------   ----------   -------

    C74SELTCTD   POLLTCTD   AUTOPOLCTL
    C74FSLTCTD   POLLTCTD   AUTOPOLCTL
    C74CANDFSL   CANDEPOLTD   CANDETDCTL
    C74CANDSEL   CANDEPOLTD   CANDETDCTL

If the COBOL74 SKIP or SPACE functions are not being used, it is
not necessary to use these COBOL74 Request procedures; the
standard CANDEFSLTD or CANDESELTD Request procedures can be used.

The COBOL74DEC Declaration and the COBOL74SEL Request procedure
are provided for conversion purposes and should no longer be used
for COBOL74 datacomm programs.

The use of the COBOL74DEC Declaration and the COBOL74SEL Request
procedure in conjunction with either the C74SELTCTD, C74FSLTCTD,
C74CANDSEL, or C74CANDFSL Request procedures generates syntax
errors. This is a permanent restriction.

The $MICRO NDL compiler option should not be used with the
COBOL74 Request procedures as unpredictable results can occur.

NDL/LIBRARY Patch #3   (Creation Date: 08/24/82)

With this patch, the CANDETDCTL Control Procedure now correctly
allows switched lines to reconnect when the line was disconnected
in the course of operations.

NDL/LIBRARY Patch #4   (Creation Date: 08/24/82)   FCF 149-1013-820124

With this patch, the RJE3780 Request and Control Procedures,
RJE3780RQS and RJE3780CNT, now correctly handle error conditions.

NDL/LIBRARY Patch #5   (Creation Date: 08/24/82)   FCF 705-0015-000174

With this patch the TCTUPTIO Request Procedure, now correctly
handle error conditions.

NDL/MACRO Patch #5   (Compile Date: 10/02/82)

This patch fixes the system halt (L=@000011@, T=@211641@) when a
COBOL74 program performed the initial RECEIVE or ENABLE INPUT
statement while using communication sections (CD). This patch
should be used with patch #43 to the MCPII.

NDL/MACRO Patch #6   (Compile Date: 10/02/82)

The syntax of the IOLOG command has been changed to the following
syntax:

```
--- <job number>AXIOLOG ------------------------------------!
                            !          !
                            !-- OFF --!
                            !          !
                            !-- ON ---!
```

If the ON keyword is specified in the IOLOG command, the IOLOG
facility is is turned on; if the OFF keyword is specified, it is
turned off. If no keyword is specified, the current status of
the IOLOG facility is returned.

This patch should be used in conjunction with patch #69 to MCPII
and patch #2 to NDL/LIBRARY.

NDL/MACRO Patch #7   (Compile Date: 10/02/82)   FCF 042-0942-DSS040

This patch corrects the invalid substring program abort that
occured when the seventeenth line was added to the network
controller symbolic code.

NDL/MACRO Patch #8   (Compile Date: 10/02/82)   FCF 745-0001-000001

With this patch the TERMINATE DISCONNECT and INITIATE DISCONNECT
statements are now handled properly. Now, the network controller
no longer uses excessive processor time when the RJE3780 program
is executed.

NDL/MACRO Patch #9   (Compile Date: 10/02/82)   FCF 505-0771-804091

This patch fixes the problem where AUDIT BUFFER(INPUT) statement
did not work correctly. The AUDIT BUFFER(INPUT) statement must
be performed prior to a QUEUE INPUT statement.

PACK/INIT Patch #2   (Compile Date: 11/04/82)

This patch contains the following:

  1. The REWIND CASSETTE message has been removed.

  2. The handling of the disk ATTENTION result descriptor has
      been corrected. This problem corrects the PACK/INIT program
      hanging when initializing a never before initialized disk.

  3. The use of the ETX character is no longer required.

  4. TTY messages are no longer overprinted.

  5. IO devices with a software ID > 31 can now be recognized.

  6. The method for handling a "STATUS" input request from the
      operator has been changed, resulting in increased throughput
      with a future product.

NOTICE: This patch requires the use of the following software:

Program	Patch Level
SSLOAD/MAKCAS	10.0.003 or later
CASSETTE/LOADER	10.0.003 or later
GISMO/SA	Compile Date 7/11/82 or later

PACK/INIT Patch #3   (Compile Date: 11/04/82)

This patch contains the following:

1.   Removes the 10-sector size limit for the master and working
      available tables. There is now no limit on the potential
      size of these tables. This change is necessary because of
      the large number of segments that may be removed (XD input
      message) to the initialize-verify pack routines for a
      B9494-4 (207) disk pack.

2.   Corrects the length equal zero problem in the MASTER
      AVAILABLE and WORKING AVAILABLE tables.

3.   Corrects the looping problem when a cylinder verify (CV
      option) failed to prompt for cylinder numbers and
      automatically progressed from cylinder zero to some higher
      cylinder.

PACK/INIT Patch #4   (Compile Date: 11/04/82)   FCF 023-0000-DIS075

The PACK/INIT program no longer purges a disk when a cylinder
initialization operation (CI option) is being performed and the
operator entered "NO" in response to the request "IS A PURGE
DESIRED?"

PACK/INIT Patch #5   (Compile Date: 11/04/82)

This patch contains the following:

1.   The PACK/INT program no longer hangs when the ERROR
      pushbutton is pushed on the TTY SPO.

2.   Allows the PACK.INIT program to work with a
      SYSTEM/MLFIRMWARE file dated 7/12/82 or later.

3.   Ensures that the first line of TTY SPO output begins at
      character position one of the new line.

4.   The PACK/INIT program no longer hangs awaiting an IO
     complete after the operator pushed the INPUT REQUEST
     pushbutton on the TTY SPO.

5.   The PACK.INIT program now properly updates references to the
     COLD_START_VARIABLES to the Mark 10.0 release. This had
     caused a problem of the PACK.INIT program always
     unconditionally initializing cylinder zero of a Mark 9.1 or
     10.0 system pack when doing a "CI" operation because it
     could not find the WORKING AVAILABLE TABLE field.

QWIKLOG Patch #2   (Compile Date: 09/03/82)

With this patch, setting the time (TR input message) or the date
(DR input message) backwards no longer causes erroneous graphing.

QWIKLOG Patch #3   (Compile Date: 09/03/82)

This patch completes the correction of the problem partially
corrected by QWIKLOG patch #2.

QWIKLOG Patch #4   (Compile Date: 09/03/82)   FCF 012-0749-VRS001

The QWIKLOG program now correctly analyzes the running time for
the SYSTEM/ODT program. The QWIKLOG program used to incorrectly
analyze the running time when the time (TR input message) and
date (DR input message) were changed.

RJE3780 Patch #2   (Compile Date: 10/02/82)

This patch causes the RJE3780 program to correctly process
messages of zero length. In prior releases, the warning message:
"WARNING - RECORD NOT DELIMITED WITH 'IRS'" was displayed when a
message of zero length was received.

RJE3780 Patch #3   (Compile Date: 10/02/82)   FCF 705-0000-WB8208

This patch corrects the problem where output messages were
intermittently corrupted.

RJE3780 Patch #4   (Compile Date: 10/02/82)

This patch corrects the problem where messages were sent in
non transparent mode when the RJE3780 program was operating in
transparent mode.

RJE3780 Patch #5   (Compile date: 10/02/82)

This patch to the RJE3780 program corrects the following
problems:

1. The RJE3780 program now correctly recovers from an I/O error
    on a print communicate. This problem resulted in some
    triple spaced text not being printed.
    FCF 042-0942-SEC002

2. The .FINI or the .CLOSE commands now cause the RJE3780
    program to go correctly to end of job when the host system
    had previously disconnected the line.
    FCF 044-0000-000007

RJE3780 Patch #6   (Compile date: 10/02/82)

This patch puts the "READER CLOSED" ODT message back into the
RJE3780 program, so that the operator knowns when the reading of
an input file is complete.

RPG Patch #4   (Compile Date: 04/02/82)

This patch contains the following:

1. RPG programs no longer abort with PROGRAM REQUESTED SEGMENT
    OUTSIDE THE BOUNDS OF THE SEGMENT DICTIONARY when the
    following was specified in the RPG source file.

    a. The Control Card (H) Specification had the number one
        (1) in the SOURCE INPUT DIALECT field (column 51).
        This indicated that the dialect of the source file was
        RPGI.

    b. Halt indicators (H1-H9) were used in the program.

    c. The LR indicator was set on in the detail portion of
        the Calculation Specifications.

2. The RPG compiler now correctly generates code for the MOVE
    operation code when moving to an array larger than 256
    characters.

3. RPG programs no longer abort with INVALID SUBSCRIPT, and
    possibly other unpredictable conditions, when lookahead
    fields are the only fields declared in the Input
    Specifications for a file.

4. The RPG compiler now correctly generates code when the FORCE
    operation code is used or lookahead fields are specified in
    the Input Specifications. This problem was introduced with
    Patch #3 to the RPG compiler.

RPG Patch #5   (Compile Date: 04/02/82)

With this patch, the system no longer halts with L = @0D0055@
when an RPG program is creating an COBOL74-style ISAM file with a
key length of 29 characters. The RPG compiler was not generating
the correct record size for the primary index file.

RPG Patch #6   (Compile Date: 04/02/82)

With this patch, RPG programs no longer abort with either ILLEGAL
COMMUNICATE WITH GISMO or INVALID SUBSCRIPT when the SETLL
operation code is used with a COBOL74-style ISAM file.

RSVP Patch #1   (Compile Date: 07/29/82)

With this patch, the RSVP now correctly locates the port and
channel address of the BDLC line adapter on a dual processor
system.

SDL/XMAP Patch #1   (Compile Date: 08/31/82)   FCF 075-0001-500443

The SDL/XMAP program now correctly prints the information for a
program with more than 16 PAGE declarations. The maximum that
the SDL/XMAP program now handles is 63 PAGE declarations.

SDL.INTRIN/AGGREGATE Re-release (Creation Date: 09/03/82)

This re-release contains the following:

1. With this updated version, the convert intrinsic
    (SDL.INTRIN/#0000004) now correctly returns a fixed value
    instead of a 24-bit value when conversion (CONVERT verb in
    SDL/UPL language) to a fixed value was specified.

2. UPL and SDL programs no longer abort with a CONVERT ERROR
    when attempting to convert a character field with a value of
    -8388608 to a fixed field. SDL intrinsic labeled
    SDL.INTRIN/#00000004 was updated to include this fix.

FCF 605-0002-RJ0002

3.   UPL and SDL programs can now correctly change the file type
     of a file to a pseudo deck, that is, "CHANGE
     <file-identifier> (FILE_TYPE := 9);" now works. Previously,
     the program aborted.

SDL.INTRIN/REMOVER Initial Release (Compile Date: 07/14/77)

This program is for use in setting and resetting the RESTRICTED
boolean for the SDL.INTRIN/AGGREGATE file and allows the operator
to remove the old SDL.INTRIN/AGGREGATE file and add the new
SDL.INTRIN/AGGREGATE file.

SMCS Patch #3   (Compile Date: 08/26/82)

This patch corrects an INVALID SUBSCRIPT program abort when a
user logs on with a usercode/password pair that has a usercode
index of 1023 and is the only occurrence of that usercode in the
(SYSTEM)/USERCODE file. The SMCS program now issues an error
message and disallows the log on.

    >> ERROR: USERCODE INDEX GREATER THAN 1022

SMCS Patch #4   (Compile Date: 08/26/82)

This patch corrects a NAME/VALUE STACK OVERFLOW program abort
when a user transmitted a full screen of input after entering the
SIGN ON command and before receiving the "SIGNED ON TO
<program-name>, SIGNAL = <signal character>" message indicating
that the sign on procedure was complete. Messages transmitted
before the sign on procedure is complete are truncated to 240
characters.

SMCS Patch #5   (Compile Date: 08/26/82)

This patch corrects an INVALID SUBSCRIPT program abort when the
first occurrence of a usercode in the (SYSTEM)/USERCODE file has
a usercode index of 1023. This patch disallows a log-on with
such a usercode index.

SMCS Patch #6   (Compile Date: 08/26/82)

The SMCS program no longer changes the terminal type of the
station when processing the SYCOM connect message unless the
terminal type is a B 1000 terminal type. The B 1000 terminal
type must be exactly two characters in length, numeric, and be
followed by a blank character. This corrects the problem that
occurred when a terminal connects from the Large Systems

SYSTEM/RJE program through B 1000 SYCOM program to the SMCS
program. The terminal type in the Large Systems network
controller, TD830E, was converted to terminal type 34
FCF 105-0316-000027

The CHANGE command has been enhanced to allow the terminal type
of a station to be changed using the TERMINALTYPE keyword. This
change is valid during the current run of the network controller
or until it is changed again by the SMCS program.

The syntax for the CHANGE TERMINALTYPE variant of the CHANGE
command is:

```
CHANGE --------------------------------------------------------->
  ---         !             !      !                        !
              !--- STATION ---!    !--- <lsn> ------------!
                                   !                      !
                                   !--- <station name> ---!


  >-------- TERMINALTYPE -------------------- <type> ----------!
                              !        !
                              !-- TO --!
```

The <type> token is an integer value ranging from 00 to 99.

SMCS Patch #7   (Compile Date: 08/26/82)

Patch #7 to the SMCS program resolves several problems and
includes several enhancements.

This patch of the SMCS program changes the DIRECTORY file making
it impossible to return to an earlier release of the SMCS program
without using a DIRECTORY file created by the earlier version of
the SMCS program.

Supplemental documentation can be found in the DOCUMENT/SMCS.
The DOCUMENT/SMCS is relevant to SMCS release 10.0.007.

Problem Resolutions

This patch release of the SMCS program corrects the following
problems.

1. The SMCS program now allows a user who has logged on with an
    id identical to a usercode with which a macro procedure was
    created to call the macro procedure.
    FCF 013-0338-DS0126

2. The SMCS program no longer hangs in a waiting to receive
    condition when a JOBS command is entered, the RD program is
    not running, and there are a large number of jobs in the
    mix.
    FCF 004-0075-IFG002

3. The SMCS program now accepts any usercode and password that
    is accepted by the MCP.
    FCF 010-0946-442NGB

4. When a station becomes not ready and a program is signed on
    to at that station, the SMCS program now sends a type 01
    data message with the variant set to 04 to the primary file
    (if it uses MCS headers) unless there is a secondary file
    and the primary file does not use MCS headers.
    FCF 032-0283-HNB001

5. The SMCS program now correctly displays text greater than 80
    characters when the station is in reverse scroll mode.
    FCF 041-0191-000174

6. The SMCS AUTO-START mechanism now works correctly if the
    JOBS file is on a user disk.
    FCF 013-0338-DS0097

7. The SMCS program now accepts input greater than 240
    characters when a program has been initiated and the remote
    file for the program has not yet been opened. In prior
    releases, the SMCS program aborted with a name/value stack
    overflow.
    FCF 023-0000-LUT081
    FCF 010-0946-213CGA

8. When the SIGNAL or TRANSLATE commands are used to change the
    system signal character or the system translate option, the
    changes take effect immediately.
    FCF 013-0338-DS0065

9. The SMCS program now only approves an Attach message
    initiated by another MCS for stations declared in the
    network controller as output-only.
    FCF 052-0000-CMC001

10. The SMCS program no longer creates or attempts to open the
    DIRECTORY file if program switch 3 is reset at beginning of
    job, indicating that the macro procedure facillity is
    disabled If macro procedures are to be allowed and program
    switch 3 was not set at beginning of job, the MACRO ON
    command must be used. Refer to the discussion of the
    MACRO ON command and the DOCUMENT/SMCS for more information.
    FCF 044-0655-DKB001

11. The SMCS program no longer changes the terminal type of the station when processing the SYCOM connect message unless the terminal type in the connect message is a B 1000 terminal type. The B 1000 terminal type must be exactly two characters in length, numeric, and be followed by a blank. This corrects the problem that occurred when a terminal connects from Large Systems SYSTEM/RJE to SYCOM. The terminal type in the Large Systems network controller, TD830E, was converted to terminal type 34.
    FCF 105-0316-000027

12. The SMCS program now passes input that begins with the token LIST to the MCP. In prior releases, the SMCS program would accept the LIST token and not respond.
    FCF 032-0227-JCL050

13. A DC4 control character (home cursor) is no longer sent to non-screen devices.
    FCF 062-0962-AJW001

14. The SMCS program now displays a list of the active stations when a STOP command has been entered.

15. If the CLEAR option is misspelled in the SIGN OFF command, an error message is now given. In previous releases of the SMCS program, a SIGN OFF with no clear would be performed.

16. The SMCS program no longer attempts to put an undeliverable message for a program from a station (message type 01) in the MAIL file. Instead, a message is displayed on the user's station indicating the the program's queue is full and to retransmit the message later.

17. The SMCS program no longer transmits the escape K control sequence (@27@ K) to a station with terminal types declared as 00 (teletype) or as 50 (MT 686/MT 687) in the network controller symbolic code.

18. The SMCS program no longers sends an attach notification to output only devices and devices that have been declared in the network controller as a mainframe (terminal types 62 and 63).

19. The SMCS program no longer aborts with an invalid subscript on a STATUS STATION command if the program field in the station table is @FF@.

20. The SMCS program now handles an Attach message from another MCS correctly.

21. The SMCS program no longer removes a program table entry
     until the program has closed all of its remote files and
     gone to end of job.

22. The SMCS program no longer aborts with an invalid subscript
     program abort when processing program-pass input messages
     with the SUB_TYPE field set to 02.

23. The password is now obscured in the text part of a
     program-pass output message when it is written to the TRACE
     file if the Protocol type is 2.

24. The SMCS program now correctly handles inquries about a
     station when the station identifier contains embedded blanks
     or special characters.

25. When in reverse scroll mode, all SMCS commands that began
     with a signal character are no longer missing the signal
     character when the text is scrolled down the screen.

26. The HELP command has had the following corrected in the
     displays:

     a.   The MAIL command can be abbreviated as M.

     b.   The MAKE command is now displayed for Remote ODT
          stations.

     c.   The SIGN ON command is no longer displayed if the
          station is attached to a program.

     d.   The SIGN OFF command is no longer displayed if the
          station is not attached to a program.

     e.   The TABS command is now displayed.

27. When the SMCS program cannot deliver a message to a station
     because the station's queue is full, the message is no
     longer corrupted when it is written to the MAIL file or the
     TRACE file.

28. The TRANSLATE command no longer fails if it is entered in
     lower case from a work station that is not logged on and has
     the translate option reset.

29. The SMCS program now allows a user to sign on if the
     usercode and password have a usercode index of 1023. This
     requires a conversion of the DIRECTORY file to a new format.
     This conversion is performed at beginning of job by the SMCS
     program whenever the SMCS program detects the prior version
     of the DIRECTORY file. The new format of the DIRECTORY file
     is not compatable with the DIRECTORY file created by prior
     release of the SMCS program and cannot be used with prior

releases of the SMCS program.

30. The SMCS program no longer sends too many control characters
     when writing to a station in scroll mode. This problem
     caused blank lines to be sent by the network controller
     Request procedure after the output, causing the output to
     appear double-spaced.

31. The SMCS program no longer sends datacomm control characters
     to stations declared in the network controller symbolic code
     with a terminal type of 59 (SYCOM virtual program) or 60
     (SYCOM virtual ODT).

Enhancements

The following enhancements have been made to the SMCS program:

Program-Pass Screen Size

The SMCS now allows a full screen of 1920 characters to be
transmitted using the PASS command.

Fatal Errors

All but one fatal error have been removed from the SMCS program.
The remaining fatal error occurs at beginning of job if the
buffersize has been declared too small.

BROADCAST Command

The BROADCAST command now only sends to active stations -- those
stations that a user has logged on, has entered an ID command, or
is attached to a remote file. The SEND TO ALL command continues
to send to all stations.

TABS Command

The TABS command has been enhanced to allow the specification of
a starting position and an increment. Refer to the DOCUMENT/SMCS
for the new syntax of the TABS command.

JOBS file

The following enhancements have been made to the JOBS file. The relevant syntax diagrams are given in the DOCUMENT/SMCS.

1. A COPIES option is now allow to specify the maximum number of copies of the program than can be spawned by the SMCS program.

2. The SMCS program now allows comments in the JOBS file. Comments are delimited by the percent sign (%) character.

3. The MESSAGES option has been implemented to cause all output messages for the program to be delivered to all stations that are signed on to the program.

    If the MESSAGES option is specified, the SMCS program sets the LS boolean when it spawns the program. This means that the program cannot spawn other jobs with the LS boolean set.

4. The SMCS program now allows a job, that is to be signed on to or passed to, to be restricted to certain usercodes. There are two new options in the jobs file to allow the user to specify which usercodes are to be allowed to access the program. These are the USERCODE and USERFILE options.

    The USERCODE option allows a single usercode to be specified in the JOBS file.

    If more than one usercode is to be specified, the USERFILE option must be used. The USERFILE option specifies the name of a disk file that contains a list of usercodes that are allowed to sign on or pass to the program. The disk file record size must be 90 characters; only the first 72 characters in the file are used. If a usercode and password is required to access the file (i.e., the SECURITYUSE is PRIVATE), the usercode and password required to access the file must be specified following the USERFILE option.

    Partial usercodes can also be specified for the USERCODE and USERFILE options. The partial usercode is terminated by a question mark (?) character. For example, if USERCODE = AB? is specified only usercodes begining the the characters AB are allowed to sign on or pass to the program.

5. The SMCS program now allows a timer value to be specified in the NO-EOF option in the JOBS file. If a timer value is specfied, the SMCS program will wait that time before sending an EOF branch to the program.

CLOSE Command

The SMCS program access routine for the JOBS file has been
changed. During the run of the SMCS program, the JOBS file
remains open and a table of programs executed or already
executing from the JOBS file is maintained. This table contains
the program identifiers and pointers into the JOBS file. If the
user needs to change the JOBS file, the CLOSE command has been
added to the SMCS syntax to close the JOBS file. The JOBS file
remains closed until the SMCS program needs to access it again.
The syntax of the CLOSE command is given in the DOCUMENT/SMCS.

CHANGE Command

The CHANGE command has been enhanced to allow the terminal type
of a station to be changed using the TERMINALTYPE keyword. This
change is valid during the current run of the network controller
or until it is changed again by the SMCS program.

The new syntax for the CHANGE command is given in the
DOCUMENT/SMCS.

Recognition of Attached Stations

The SMCS program now automatically recognizes new stations
attached to its remote file. This feature enables the SMCS
program to run subordinate to any other MCS, such as GEMCOS, that
would attach stations the SMCS remote file.

Maximum Programs

The maximum number of programs running under the SMCS MCS has
been increased to 64 from 16. The program table has been
converted to a paged array.

Maximum Files

The maximum number of remote files that can be opened by the SMCS
program has been increased to 64 from 16. The remote file table
has been converted to a paged array.   •

Remote ODT Creation

The limit on the number of Remote ODT stations that can be
created by a MAKE or a CHANGE command has been removed.

Step Macro Procedures

The macro function has been enhanced to include step macro
procedures. Refer to the discussion of step macro procedures in
Section 5 of the DOCUMENT/SMCS for more details on the creation
and operation of step macro procedures.

CONTINUE Command

The CONTINUE command has been added and is valid from all station
except the system ODT. The CONTINUE command is used to continue
a Step macro procedure that was suspended by a WAIT CONTINUE step
macro command. The syntax for the CONTINUE command is given in
the DOCUMENT/SMCS.

TERMINATE Command

The TERMINATE command has been added and is valid from all
station except the system ODT. The TERMINATE command is used to
terminate a step macro procedure that is currently running. The
syntax for the TERMINATE command is given in the DOCUMENT/SMCS.

MACRO ON Command

The MACRO ON command has been implemented to enable the SMCS
macro procedure facillity and default log-on if program switch 3
was reset at beginning of job.

The DIRECTORY file is not open unless macro operations are
allowed and is not closed until the SMCS program goes to end of
job.

The MACRO ON command is only valid from a Controller station or
the system ODT. The syntax for the MACRO ON command is given in
the DOCUMENT/SMCS.

Default LOGON Command

The SMCS program now has the capability to perform a command
automatically when a user logs on to the SMCS program. This
command is the default log-on command.

The LOGON command is used to add, change, or delete the default
log-on command. The default logon command can be a macro
procedure.

If an SMCS command is entered with the USER the command is
processed before the default log-on command is processed.

In order to use the default log-on command, program switch 3 to
be set to 1 at beginning of job or the MACRO ON command specified
prior to the log-on of the user.

The default log-on command is restricted to 90 characters. The
SMCS program does not scan for the bracket characters ([ ]) in
the LOGON command, so a macro procedure, not delimited by the
bracket characters, can be used as the default log-on command.

The syntax for the LOGON command is given in the DOCUMENT/SMCS.

Sign-on to Passed Program

When a user signs on to a program, the user is now attached to
the same copy of the program to which the user had been passing
to using the PASS command, if such a copy exists.

MT 686/MT 687 Terminals

The SMCS program now recognizes MT 686 and MT 687 terminals if
they are declared in the network controller symbolic code with a
terminal type of 50.

The SMCS program does not forward a JOBS command to the RD
program for MT 686 and MT 687 terminals.

JOBS Command

The SMCS program no longer formats information received as a
result of a JOBS command being sent to the MCP.

USER and ID Commands

The USER and ID commands are no longer scanned for macro
procedures delimited by the bracket characters ([ ]). This means
that the macro procedure invocation is not expanded before the
USER or ID command is processed and allows a user to log on with
a macro procedure following the USER or ID command and have it
processed after the log-on is complete.

Example:

     USER A/B [ON]   % "ON" is a macro procedure

Other commands that are not scanned for macro procedures
delimited by the bracket characters ([ ]) are the LOGON, MACRO,
and PASS commands.

SORT Patch #1   (Compile Date: 12/14/82)   FCF 013-0338-GVL052

The SORT generator no longer generates a sort program that hangs
on a FILE NOT PRESENT condition when the COLLATE option is
specfied.

SORT Patch #2   (Compile Date: 12/14/82)   FCF 023-0000-NST024

The SORT generator now correctly handles a character string in an
INCLUDE/DELETE option with leading blank characters.

SORT/UTILITY Patch #2   (Compile Date: 09/03/82)

This patch corrects a problem of the input file not being purged
problem when the letter "P" was specified in column 20 of the
fixed-format header specification.

SORT/UTILITY Patch #3   (Compile Date: 09/03/82)

The SORT/UTILITY no longer abnormally aborts with REFERENCE
ADDRESS LENGTH MISMATCH.

SORT/UTILITY Patch #4   (Compile Date: 09/03/82)

The SORT/UTILITY now correctly displays the syntax to the
DESCENDING FORCEKEY option in the teach file.

SORT/UTILITY Patch #5   (Compile Date: 09/03/82)   FCF 142-1340-159JAX

The SORT/UTILITY program now correctly handles the RSA (
right-signed alpha) option in the INCLUDE specifications.

SORT/VSORT Patch #1   (Compile Date: 12/14/82)

This patch includes the following:

1.   The SORT/VSORT program no longer removes an input file when
     the TAGSEARCH option has been specified.

2.   The SORT/VSORT program now closes tape files with LOCK when
     the application program specified LOCK. The SORT/VSORT
     program used to close the tape file with RELEASE whether or
     not the application program specified LOCK.

SORT/VSORT Patch #2   (Compile Date: 12/14/82)   FCF 013-0338-JMB211

The SORT/VSORT program now correctly handles workfiles when
running under a non-privleged usercode.

SORT/VSORT Patch #3   (Compile Date: 12/14/82)   FCF 041-0240-000170

With this patch programs, running under a non-priviledged
usercode and with security levels 1 or 2, may now call a SORT.
Prior to this patch a file access error was obtained. Note that
this patch also requires patch 132 to MCPII.

SSLOAD/MAKCAS Patch #1   (Compile Date: 09/03/82)

This patch contains the following:

1.   The second side of a cassette is now correctly made when
     both sides are written by a single run of the program.

2.   Changes code having to do with rewinding the cassette. The
     rewinding of the cassette is now performed by the SDL
     program via a communicate with GISMO or directly by a MIL
     code program.

3. This patch allows the SSLOAD/MAKCAS program to correctly
   write cassettes for standalone programs that are being made
   to facilitate implementation of a future product.

The meaning of program switch 7 is changed as follows:

  Switch 7 = 0
     Default setting. Include code for handling the future
     product.

  Switch 7 = 1
     Inhibit writing of code for handling the future product.

     Note: A cassette created with the code for handling the
     future product executes correctly on a system with a
     standard ODT.

SSLOAD/MAKCAS Patch #2   (Compile Date: 09/03/82)

Cassette tapes are now correctly generated for a B1830 systems.

SSLOAD/MAKCAS Patch #3   (Compile Date: 09/03/82)   FCF 145-1322-000024

The SSLOAD/MAKCAS program no longer zero fills the rest of a
cassette record when a CASSETTE REWIND MICRO (@0028@) operation
is encountered. This used to cause the data following the
CASSETTE REWIND MICRO to be loaded incorrectly.

STANDALONE/DISK.DUMP Patch #3 (Compile Date: 11/02/82)

This patch contains the following:

1. Corrects the handling of the disk ATTENTION result
    descriptor.

2. Removes the REWIND CASSETTE message.

3. The use of the ETX character is no longer required.

In addition this patch allows the STANDALONE/DISK.DUMP program to
operate with a future product and adds the following changes:

1. The maximum size of an ODT input response has been increased
    to 96 characters to avoid a premature EOJ.

2. Added SYSTEM/CONTROLLER, SYSTEM/NIF, SYSTEM/MLFIRMWARE, and
    SDL.INTRIN/AGGREGATE to the files that are required to be on
    the input pack, when they are copied to the output pack for
    use by the operating system (MCPII) with a future product.

NOTICE: This patch requires the use of the following software:

Program	Patch Level
SSLOAD/MAKCAS	10.0.003 or later
CASSETTE/LOADER	10.0.003 or later
GISMO/SA	Compile Date 7/11/82 or later

STANDALONE/DISK.DUMP Patch #4 (Compile Date: 11/02/82)

This patch adds the double comparison feature which was
implemented in the patch #3 to the Mark 9.1 release of the
STANDALONE/DISK.DUMP program. With this patch, the
STANDALONE/DISK.DUMP program requests if the double-check
comparison operation is desired by displaying the following
message:

    IS DOUBLE CHECK COMPARISON DESIRED?

If the operator enters YES, an additional read operation of the
input pack is performed before the data is compared with the data
copied to the output pack. If the operator enters NO, this
feature is ignored, the input pack is read only once, and the
data in memory is compared with the output pack data. Use of
this feature protects against disk failures during the disk-dump
copy operation.

STANDALONE/DISK.DUMP Patch #5 (Compile Date: 11/02/82)

This patch contains the following:

1.   The STANDALONE/DISK.DUMP program no longer generates a
      scratch output pack when the input pack is read on a disk
      drive which is on a different channel then what the input
      pack was created on.

2.   Allows the STANDALONE/DISK.DUMP program to work with a
      SYSTEM/MLFIRMWARE file dated 7/12/82 or later.

3.   Allows the use of the ERROR pushbutton on a TTY SPO to
      delete incorrect input.

4.   Ensures that the first line of TTY SPO output begins at
      character position one of the new line.

5.   The STANDALONE/DISK.DUMP program no longer hangs awaiting an
      IO complete after the operator pushed the INPUT REQUEST
      pushbutton on the TTY SPO.

SYCOM Patch #2   (Compile Date: 09/14/82)

Patch #2 to the SYCOM program contains the following:

1.   The SYCOM program now uses a six-bit translate table for the
      translation of code files between two B 1000 systems. This
      enables the SYCOM program to transmit ten code records with
      the buffersize set to a maximum of 2421 bytes as opposed to
      prior releases of the SYCOM program in which five code
      records could be sent in a buffersize of 1920 bytes. The
      SYCOM program continues to use the eight-bit translate
      mechanism for communication with prior releases of the SYCOM
      program and with non-B 1000 SYCOM programs (CMS SYCOM and
      Large Systems SYSTEM/RJE).
      FCF 013-0338-DS0106

      Due to a limitation in the manner that NDL/MACRO calculates
      the buffersize, buffersizes greater 4096 are not calculated
      correctly. To circumvent this limitation, if the BUFFERSIZE
      field in the network controller source is an odd value, the
      SYCOM program adds 4096 to the network controller buffersize
      to give the correct buffersize. For example, the maximum
      allowable SYCOM buffersize of 2421 bytes would normally, be
      declared in the network controller source as 4842 bytes
      (twice the SYCOM maximum buffersize). However, the network
      controller interprets this as a buffersize of 746 bytes from
      which, the SYCOM program calculates it maximum buffersize of
      373 bytes. If the buffersize for this case was declared as
      4843, the SYCOM program correctly calculates the maximum of

2421 bytes

To correctly use this increased buffersize, the NDL
BUFFER SIZE should be set to 4843 and the MAX MESSAGE SIZE
declaration should be increased to 2421.

2. The SYCOM program no longer allows a virgule (/) character
    in tape names or in disk labels. Volume names that are
    received by the SYCOM program and exceed ten characters are
    truncated to ten characters.
    FCF 013-0338-DS0109

3. The SYCOM program now transfers DMS Audit files. Since DMS
    Audit files have a recordsize of 1800 bytes, the maximum
    buffersize that the SYCOM program can use has been increased
    to 2421 bytes.
    FCF 062-1033-RH1202

    As a result, the SYCOM program now transfers all file types
    except:

        File kind   Mnemonic
        ---------   --------

            0   Absolute MCP
            1   Active log
            2   Directory
            3   Psuedo Deck
           17   Relative File
        18,19,20   Indexed Sequential Files

4. The SYCOM program no longer hangs waiting for disk space due
    to incorrectly calculating the number of sectors for a file
    received from the Large Systems SYSTEM/RJE program.
    FCF 037-0770-203016

    The SYCOM program now calculates the number of sectors
    needed for a file received from the Large Systems SYSTEM/RJE
    program as follows:

      sectors := 10500 * recordsperblock;

    The recordsperblock is received from the SYSTEM/RJE program
    in the file transfer request.

5. The name of the file in the PUT_REPLY message is now omitted
    when the PUT operation is sucessfully started and the remote
    SYCOM program is the Large Systems SYSTEM/RJE program.

6. The syntax of the LIST command has been enhanced as follows:

        .LIST STATISTICS
        .LIST OLD
        .LIST OLD nnnn

The syntax of the LOG command has been enhanced as follows:

.LOG LOCK

These enhancements are for a future implementation of a
program to list the SYCOM/STATISTICS file. If the example
in Appendix G of the B 1000 SYCOM Reference Manual is used
or if a user-written program is used, the statistics program
must have a file name of SYCOM/STATS.

7. If program switch 6 is set to 13, the SYCOM program does not
   perform a translation/expansion of records for file
   transmission and reception. This feature allows the SYCOM
   program to interface with user-written NDL Request and
   Control Procedures using the Binary Synchronous (BISYNC)
   protocol.

8. The SYCOM program now ensures that the value of TALLY[3] is
   zero before writing to a terminal. TALLY[3] is used by
   COBOL74 datacomm to control cursor positioning. If TALLY[3]
   is not set to zero, the cursor position is unpredictable
   when using COBOL74 datacomm and virtual terminals.

SYCOM Patch #3   (Compile Date: 09/14/82)

This patch to the SYCOM program fixes the following problems:

1. The SYCOM program no longer aborts with the program abort:
   "ATTEMPTED TO OPEN RJEPRINT WITH BLANK OR ZERO MFID" when
   receiving user-named printer backup files from the Large
   Systems SYSTEM/RJE program. The SYCOM program now applies
   the first 20 characters after the <FS2> character in the the
   SYCOM control message as the backup file name. The next 10
   characters after the backup file name are taken as the form
   identifier. If there is no backup name provided, the token
   "RJ" concatenated with the data and time is used as the
   backup file name.
   FCF 042-0942-FORD02

2. The SYCOM program no longer drops printer messages when
   running in RJE mode and the output is directed to the line
   printer.
   FCF 149-1022-L&N001
   FCF 023-0000-NPC007

3. The SYCOM program no longer aborts with a Name/Value stack
   overflow program abort when running in the program-to-SYCOM
   mode and a <signal>PASS RD <command> is performed.
   FCF 152-1010-CRK116

4.   The SYCOM program no longer creates multi-area code files
     when receiving code files from a non-B 1000 SYCOM program
     such as the CMS SYCOM or Large System SYSTEM/RJE programs.
     FCF 153-1059-SWH200

SYSTEM/BACKUP Patch #1   (Compile Date: 12/06/82)

When using the BNA system to print backup files on a remote host,
an OPEN OUTPUT NEW is now done. Prior to this patch, an OPEN
OUTPUT was done.

SYSTEM/CONTROLLER Initial Release (Compile Date: 07/01/81)

This program is intended for use with a future product and must
be present when a Coldstart operation is performed.

SYSTEM/COPY Patch #3   (Compile Date: 12/15/82)

This patch contains the following:

 1. A tape directory crossing reel boundaries is now handled
     correctly.

 2. ISAM data files are now copied correctly. This patch
     requires that MCP patch #67 also be installed.

 3. The SYSTEM/COPY program now correctly removes the the
     "DUPFILE" workfile when Switch 3 is non-zero.

SYSTEM/COPY Patch #4   (Compile Date: 12/15/82)

The SYSTEM/COPY program now correctly compares files from tape to
disk. This was only a Mark 10.0 problem.

In addition this patch removes the restriction of the SYSTEM/COPY
program having 2 input buffers and 1 output buffer.

SYSTEM/COPY Patch #5   (Compile Date: 12/15/82)

This patch includes the following:

1.   The SYSTEM/COPY program now properly syntaxes an input
     statement error when specifying a multi-source copy
     operation. Prior to this patch, the SYSTEM/COPY program
     gave a misleading message stating that some of the files
     were missing and not copied.

2.   When this patch is used in conjuction with patch #90 to the
     MCPII, the problem of miscalculating the end-of-file pointer
     on some COBOL74 ISAM files is corrected.

SYSTEM/COPY Patch #6   (Compile Date: 12/15/82)

The SYSTEM/COPY program now correctly compares (COMPARE only
operation) after the first area.

When copying from disk to tape, the SYSTEM/COPY program now
rereads the disk file header prior to copying the file to ensure
that the correct header information is copied to tape. This
prevents a problem where a file was reloaded after the copy
operation had started.

SYSTEM/COPY Patch #7   (Compile Date: 12/15/82)

This patch is being made to facilitate the implementation of a
future product.

SYSTEM/DISK.INIT Patch #1 (Compile Date: 09/03/82)

This patch contains the following:

1.   Removes the 10-sector size limit for the master and working
     available tables. There is now no limit on the potential
     size of these tables. This change is necessary because of
     the large number of segments that may be removed (XD input
     message) to the initialize-verify pack routines for a
     B9494-4 (207) disk pack.

2.   Corrects the length equal zero problem in the MASTER
     AVAILABLE and WORKING AVAILABLE tables.

SYSTEM/DISK.INIT Patch #2 (Compile Date: 09/03/82)   FCF 023-0000-DIS075

The SYSTEM/DISK.INIT program no longer purges a disk when a
cylinder initialization operation (CI option) is being performed
and the operator enter "NO" in response to the request "IS A
PURGE DESIRED?"

SYSTEM/ELOGOUT Patch #1   (Compile Date: 02/26/82)

This patch is being made to facilitate the implementation of a
future product.

SYSTEM/INIT Re-release   (Compile Date: 03-01-82)

This patch is being made to facilitate implementation of a future
product.

SYSTEM/IS.MAINT Patch #1 (Compile Date: 11/04/82)

The SYSTEM/IS.MAINT program now allows copies of non-system pack
files.

SYSTEM/ISVERIFY   (Compile Date: 01/03/83)

This is the initial release of the SYSTEM/ISVERIFY utility
program. Refer to the printer backup file labeled
DOCUMENT/ISVERIFY for complete documentation on the
SYSTEM/ISVERIFY utility program.

SYSTEM/LOGOUT Patch #2   (Compile Date: 03/25/82)

This patch is being made to facilitate the implementation of a
future product.

SYSTEM/MLFIRMWARE Initial Release (Creation Date: 05/12/81)

This program is intended for use with a future product and must
be present when a coldstart operation is performed.

SYSTEM/NIF Initial Release (Creation Date: 05/14/82)

This program is intended for use with a future product and must
be present when a coldstart operation is performed.

SYSTEM/ODT Patch #7   (Compile Date: 11/01/82)

With this patch, messages to the TTY ODT are no longer formatted
incorrectly when the KB LP ON option is activated.

SYSTEM/ODT Patch #8   (Compile Date: 11/01/82)

This patch contains the following for the TTY ODT devices:

1.   Spurious line feeds are no longer generated after MCP input
     messages are accepted.

2.   The handling of multiple messages is improved.

3.   The KB SUP, KB UNS, and RMSG options are implemented.

SYSTEM/ODT Patch #9   (Compile Date: 11/01/82)

With this patch, the SYSTEM/ODT program now accepts more than one
line of input on a TTY SPO.

SYSTEM/ODT Patch #10   (Compile Date: 11/01/82)

This patch is being made to facilitate implementation of a future
product.

SYSTEM/ODT Patch #11   (Compile Date: 11/01/82)

This patch explicitly sets KB LP OFF at clear/start time.

SYSTEM/ODT Patch #12   (Compile Date: 11/01/82)

With this patch, the SYSTEM/ODT program now correctly prints the
exclamation point (!) character on a TTY SPO when the ERROR KEY
is pressed.

SYSTEM/ODT Patch #13   (Compile Date: 11/01/82)

This patch is being made to facilitate implementation of a future
product.

SYSTEM/PATCH Patch #2   (Compile Date: 11/29/82)

The SYSTEM/PATCH program now correctly handles VOID card images
when a sequence range is included. Also, a sequence range is
allowed for VOID card images in COBOL source programs. This
program is available only to Burroughs personnel for support
purposes.

TABS/BILLING Patch #2   (Compile Date: 08/16/82)   FCF 023-0000-ANK022

This patch corrects the data corruption problem that occurred in
the TAB/CUSTOMERS file after the final billing was performed.

TABS/BILLING Patch #3   (Compile Date: 08/16/82)   FCF 012-0749-VRS005

With this patch, Special Costs are correctly handled in the
Services Rendered Billing reports.

TABS/BILLING Patch #4   (Compile Date: 08/16/82)   FCF 023-0000-ALC076

With this patch, the reporting of Special Charges in the Charge
Distribution Report is correct when a mask is used for the
billing reports.

TABS/BILLING Patch #5   (Compile Date: 08/16/82)   FCF 023-0000-IPL390

With this patch the TABS/BILLING program now allows up to 32 user
disks.

TABS/BILLING Patch #6   (Compile Date: 08/16/82)   FCF 012-0749-SAM003

With this patch, the totals are now correctly generated for the
Charge Distribution Report and the Account Charge Summary when
fixed charge rates and distributed charges are specified.

TABS/EXEC Patch #1   (Compile Date: 12/09/82)   FCF 051-0000-JCHD01

With this patch, the TABS/EXEC program has expanded the field
containing the period-to-date elapsed time on the Program
Execution Report. This field can now handle up to 9999 hours and
now accurately relects the true elapsed time.

TABS/EXEC Patch #2   (Compile Date: 12/09/82)

With this patch, the internal variable in the TABS/EXEC program
that is used to calculate the elapsed time for the Program
Execution Report has been increased to handle up to 9999 hours.
The field containing the daily elapsed time on the Program
Execution Report has also been expanded to handle up to 9999
hours.

TABS/HDWR Patch #1   (Compile Date: 04/27/82)   FCF 690-0601-509094
                                                           FCF 023-0000-ALC059

With this patch the number of records is now correctly shown on
the Peripheral Usage Report.

TABS/LOGOUT Patch #2   (Compile Date: 09/29/82)   FCF 041-1071-BG0040

With this patch the TABS/LOGOUT program can now correctly handle
duplicate log record types.

TABS/LOGOUT Patch #3   (Compile Date: 09/29/82)   FCF 023-0000-ANK024
                                                            FCF 052-0117-PV1210

With this patch, clear-start records are written to the
clear-start file during clear-start recovery and bad log records,
though detected, are ignored during processing.

TABS/LOGOUT Patch #4   (Compile Date: 09/29/82)   FCF 005-0201-000015

With this patch, the TABS/BILLING program is now correctly
executed before the first day of a new period when the AUTOBILL
option is set. Previously, the TABS/BILLING program was executed
after the first day of a new period was processed.

TABS/UPDATE Patch #1   (Compile Date: 11/29/82)   FCF 023-0000-ANK028

This patch corrects the COBOL ABNORMAL TERMINATE problem when
using the CHANGE option.

TABS/UPDATE Patch #2   (Compile Date: 11/29/82)   FCF 012-0749-SAM001

With this patch, the TABS/UPDATE program now correctly
distributes the system charges after an attempted delete of
system charge number 9999999.

TABS/UPDATE Patch #3   (Compile Date: 11/29/82)   FCF 149-1022-DM1709

With this patch, the TABS/UPDATE program now correctly merges two
customer records in the TAB/CUSTOMERS file when the CHANGE option
is being used.

TEXT/EDITOR Patch #1   (Compile Date: 09/08/82)

This patch to the TEXT/EDITOR program fixes contains the
following:

1.   The TEXT/EDITOR program no longer creates a wrap-around
     condition when a PB of a printer backup file is performed.
     FCF 061-0000-941581

2.   The TEXT/EDITOR program no longer aborts with an INVALID
     SUBSCRIPT program abort when a PD command is performed on a
     file that was created on the last day of the year.
     FCF 021-0653-EZDS01

3.   The TEXT/EDITOR program now displays a correct error message
     when a user attempts to insert too many lines in a sequence
     range.
     FCF 023-0000-IPL364

4.   Terminating the TEXT/EDITOR program by using the SMCS
     *SIGN OFF command no longer causes TEXT/EDITOR to abort with
     an INVAILD KEY program abort.
     FCF 053-0201-820143

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8.   Special Instructions for Media Duplication and/or
     Distribution

MEDIA DUPLICATION INSTRUCTIONS

The Mark 10.0 system software is required to generate the media
described in the following paragraphs.

For the Mark 10.0.2 patch release, the following types of media
are required depending on the user's hardware.

1.   User Disk

2.   Copy Tape

3.   Cassettes

User disk have to be initialized as a USER disk labeled "SYSTEM"
(see section 32 of the B1000 Systems System Software Operation
Guide, Volume 2, form number 1138542, dated October 1982).   Then
copy the appropriate files from the master SYSTEM tape with the
COPY and COMPARE statement (see section 30 of the B1800/B1700
Systems System Software Operation Guide, Volume 2, form number
1108966, dated February, 1980).

User library tape must be labeled "SYSTEM" and created from the
appropriate files on user disk with the COPY and COMPARE
statement (see section 30 of the B1000 Systems System Software
Operation Guide, Volume 2, form number 1138542, dated October,
1982).

Included with the system disk or tape, each user must have
updated Mark 10.0.2 B1000 or B1830 cassettes for CLEAR/START,
COLDSTART/DISK, COLDSTART/TAPE, DISK/DUMP, PACK/INIT, and
STANDALONE/DISK.DUMP (see section 25 of the B1000 Systems
Software Operation Guide, Volume 2, form number 1138542, dated
October 1982).

A printed copy of the patch description documentation must be
included with each release.

8.	Special Instructions for Media Duplication and/or
	Distribution

DISTRIBUTION INSTRUCTIONS

RELEASE TO BMG TSC's AND TSU's, APPROVED INTERNATIONAL
SUBSIDIARIES, SDC, THE LIEGE PLANT, SANTA ANA, AND RADNOR ADC

PATCH RELEASE ANNOUNCEMENT LETTER (FOR INTERNAL USERS ONLY)
PATCH RELEASE LETTER
"PATCH1002" LIBRARY TAPE
"SYSTEM" LIBRARY TAPE

FOR RELEASE TO ALL CURRENT MCPII USERS

PATCH RELEASE AVAILABILITY LETTER
PATCH RELEASE LETTER

FOR RELEASE TO CUSTOMERS UPON REQUEST

PATCH RELEASE ANNOUNCEMENT LETTER (CUSTOMERS ONLY)
PATCH RELEASE LETTER

Style No Catalog # Program Product Name

B1000MP2 3258 6679 MASTER CONTROL PROGRAM II
     MCPII (10.0.159)
     MCPII/MICRO.MCP (Version @10003737@)
     MICRO.MCP/DEBUG (Version @10003737@)
     GISMO (Version @10004242@)
     GISMO/DEBUG (Version @10004242@)
     SYSTEM/CONTROLLER (10.0.0)
     SYSTEM/INIT (Compile Date 03/01/82)
     SYSTEM/MLFIRMWARE (Creation Date 05/12/82)
     SYSTEM/NIF (Creation Date 05/14/82)
     SYSTEM/ODT (10.0.013)

B1000XMT 3258 7370 COMPLETE CASSETTE UTILITIES
     CLEAR/START (Compile Date 08/13/81) CASSETTE
     COLDSTART/DISK (10.0.006)   CASSETTE
     COLDSTART/TAPE (10.0.004)   CASSETTE
     DISK/DUMP (10.0.003)   CASSETTE
     PACK/INIT (10.0.005)   CASSETTE
     STANDALONE/DISK.DUMP (10.0.005)   CASSETTE

B1030XMT 3258 7370 COMPLETE CASSETTE UTILITIES (B1830 ONLY)
     B1830 CLEAR/START (Compile date 08/13/81) CASSETTE
     B1830 COLDSTART/DISK (10.0.006)   CASSETTE
     B1830 COLDSTART/TAPE (10.0.004)   CASSETTE
     B1830 DISK/DUMP (10.0.003)   CASSETTE
     B1830 PACK/INIT (10.0.005)   CASSETTE
     B1830 STANDALONE/DISK.DUMP (10.0.005)   CASSETTE

```
B1000UTL  3258 7370  SYSTEM UTILITIES
     CASSETTE/LOADER (10.0.003)
     CODE/ANALYZER (10.0.001)
     COLDSTART/DISK (10.0.006)
     COLDSTART/TAPE (10.0.004)
     CREATE/ISAM (Compile date 08/20/82)
     DISK/DUMP (10.0.003)
     DISKETTE/COPY (10.0.002)
     DISKMAP/UTILITY (10.0.002)
     DMPALL (10.0.005)
     DOCUMENT/CREATEISAM (Creation date 07/07/82)
     DOCUMENT/ISVERIFY (Creation date 07/07/82)
     DUMP/ANALYZER (10.0.012)
     GISMO/SA (Version @10004242@)
     MCPII/ANALYZER (10.0.004)
     PACK/INIT (10.0.005)
     QWIKLOG (10.0.004)
     SDL.INTRIN/AGGREGATE (Creation Date 09/03/82)
     SDL.INTRIN/REMOVER (Compile Date 07/14/77)
     SSLOAD/MAKCAS (10.0.003)
     STANDALONE/DISK.DUMP (10.0.005)
     SYSTEM/BACKUP (10.0.001)
     SYSTEM/COPY (10.0.007)
     SYSTEM/DISK.INIT (10.0.002)
     SYSTEM/ELOGOUT (10.0.001)
     SYSTEM/IS.MAINT (10.0.001)
     SYSTEM/ISVERIFY (Compile date 01/03/83)
     SYSTEM/LOGOUT (10.0.002)

B1000BAS  3258 6067  BASIC
     BASIC (10.0.001)

B1000BNS  2964 7541  BURROUGHS NETWORK ARCHITECTURE
     BNA/HSLIO (10.0.003)
     BNA/HSP (10.0.006)
     BNA/NSM (10.0.009)
     BNA/NSP (10.0.008)
     BNA/PLM (10.0.002)
     BNA/SIZEFILE (Creation Date 12/16/81)
     RSVP (10.0.001)

B1000CB1  3258 6166  ANSI 74 COBOL
     COBOL74 (10.0.020)
     COBOL74/INTERP1M (10/13/82)

B1000CE1  3258 6174  COMMAND AND EDIT (CANDE)
     CANDE (10.0.005)
     CANDE/ANALYZER (10.0.001)
     CANDE/TEACH-FILE (Creation date 07/24/81)
```

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B1000COB  2814 3535  COBOL
     COBOL (10.0.006)

B1000DM1  3258 6232  DMS II INQUIRY
     DMS/INQUIRY (10.0.009)

B1000DM2  3258 6669  DMS II
     DMS/DASDL (10.0.008)
     DMS/DBMAP (10.0.004)
     DMS/DECOMPILER (10.0.004)
     DMS/REORG.READ (10.0.001)
     DMS/REORG.WRIT (10.0.007)

B1000FOR  3258 6273  FORTRAN
     FOR.INTRIN (Creation Date 11/22/82)
     FORTRAN (10.0.001)

B1000FR1  3258 6299  FORTRAN 77
     FORTRAN77 (10.0.006)
     FORTRAN77/INTERP2M (Compile Date 11/12/82)
     FORTRAN77/INTRINSIC (Creation Date 12/16/82)

B1000HAS  3258 6364  HASP
     HASP (10.0.005)
     HASP/MODIFIER (10.0.003)
     HASP/SPOOL (10.0.002)

B1000NDL  3258 6752  NETWORK DEFINITION LANGUAGE
     NDL/ADDRESS (Creation Date 10/02/82)
     NDL/DUMP (10.0.002)
     NDL/LIBRARY (Creation Date 08/24/82)
     NDL/MACRO (10.0.009)

B1000PWR  3258 7065  REMOTE JOB ENTRY IBM3780
     RJE3780 (10.0.006)

B1000RPG  3258 7099  REPORT PROGRAM GENERATOR
     RPG (10.0.006)

B1000SMC  3258 7198  SYSTEMS COMMUNICATIONS MODULE
     DOCUMENT/SMCS (Creation date 12/01/82)
     SMCS (10.0.007)

B1000SRT  3258 7180  SYSTEM SORT
     SORT (10.0.002)
     SORT/UTILITY (10.0.005)
     SORT/VSORT (10.0.003)

B1000SYC  3258 7289  SYSTEMS COMMUNICATIONS MODULE
     SYCOM (10.0.003)
```

B1000TAB 3258 8741 TABS
     TABS/BILLING (10.0.006)
     TABS/EXEC (10.0.002
     TABS/HDWR (10.0.001)
     TABS/LOGOUT (10.0.004)
     TABS/UPDATE (10.0.003)

B1000TE1 3258 7362 TEXT EDITOR
     TEXT/EDITOR (10.0.001)

B1000UPL 3258 7362 USER PROGRAMMING LANGUAGE COMPILER

     SDL/XMAP (10.0.001)

FOR RELEASE TO NEW MCPII USERS

Mark 10.0.2 SYSTEM ANNOUNCEMENT LETTER
APPROPRIATE PROGRAM PRODUCTS FROM THE 10.0.2 SYSTEM TAPE
PATCH 10.0.1 RELEASE LETTER
PATCH 10.0.2 RELEASE LETTER