

UNIVERSITY OF MINNESOTA COMPUTER CENTER
Deadstart Systems Newsletter

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NOTICE OF CHANGES TO THE SYSTEM

Tom Lanzatella added TALKFIL as a new fast attach file. This file is used by SIMTALK.

Kevin Matthews changed the restriction on the ROLLIN command which prohibits a file with queue priority less than MNPS (100B) from being rolled-in. The ROLLIN command is now legal for files with priority less than MNPS if the file is type rollout. Kevin also added a ENABLE/DISABLE DSD option for ERROR IDLE (see DSN 5,21 P. 171). Additionally, a new version of PDUMP with complete documentation was contributed.

Don Mears installed the following changes.

- 1) A bug in null line processing LTD which was actually discovered and fixed before the last system was installed was repaired.
- 2) S-key processing in TELEX was repaired for a case when NOTICE is running with DISTC.
- 3) A possible dropped pot problem related to S-key processing in TELEX was repaired.
- 4) BRIEF mode was changed so that the RUN complete message becomes *END*.
- 5) Program PDP was enhanced so that equipment which is off in the EST can be dumped or loaded. Also, code to reserve the equipment to be dumped or loaded was removed.

- 6) Program DUMPPDP was changed so that a EST ordinal can be specified on the command.

Tim Hoffmann added MID, UN and PW options to ROUTE. This was done by adding an overlay named ROUTE = comprised primarily of code from program ALTER. Could this be the last chapter of the SEND/ASEND/AROUTE saga? Tim also made another correction to the NUSERS command and fixed HELP to run on the C720.

Marisa Riviere changed CALLPRG to check the default family first when searching for the CALLPRG index. This makes CALLPRG work right on the C720 but slows it down on the C74/C172.

Bill Sackett installed the following changes.

- 1) Program MSM was altered to recognize KRONOS fast attach files. This change will be removed after we change to NOS on the C720.
- 2) The ECSDECK command ECSMSA was installed. This command is used to establish the FWA of file ECS.
- 3) The ECSDECK command DDPONLY was installed. This command declares that no CPU access to ECS is available.

Jeff Drummond contributed new versions of all the TRANSIT - related programs along with new programs DDP and COMSDDP. The new program DDP is a DDP driver for TRANSIT to be used until the CPU coupler to ECS is installed on the C720. Programs SEND, TRANSIT and TRN were altered to allow a MI parameter on the SEND command, the so-called symmetric SEND facility. The MI parameter will be mandatory.

Brad Blasing changed track limit processing in CIO so that TRACK LIMIT messages are intensified on the B-display. Brad also repaired the NUSERS command in USERS/DSD.

On the KRONOS system, Bill Sackett changed the location of the protected permanent file bit in the catalog entry to be identical with the NOS location. Also, the DM disk equipment was renamed DY in preparation for NOS.

PROPOSED CHANGES TO THE SYSTEM

Nusers returns - by T. J. Hoffmann

I would like to install the NUSERS/E,N command back into the system in one of the following ways, please vote for your favorite.

- 1) Add E,N and NUSERS to TELEX as it was done in KRONOS.
- 2) ADD E,N to ENQUIRE, and NUSERS to TELEX. This allows one to find the number of users while waiting for a program to execute, while installing only a minor amount of extra code in TELEX to process the NUSERS command. This saves having to special case the N option from TELEXs ENQUIRE/STATUS code.
- 3) Add E,N to ENQUIRE and not implement the NUSERS command. This means that you cannot set the users count while your program is executing.

SYSTEM MAINTENANCE: People and Procedures

Last Weeks Systems Group Meeting - by T. W. Lanzatella

The following proposals were discussed.

- 1) Bill Sackett's proposal to add a new option to the RUN command in the MNF subsystem to control the use of either MNF or TSF was rejected. Instead, we decided that, in general, compiler names should not be the same as subsystem names and that MNF and TSF should each have their own subsystem. We also decided that M77 should have its own subsystem. The following table illustrates the changes:

<u>Current Name</u>	<u>New Name</u>	<u>Compiler</u>
FORTTRAN	FORTTRAN	MNF
FTNTS	M77TS	M77
MNF	MNFTS	TSF

Although we all agreed that compilers and subsystems should not be named identically, the disposition of names for the other subsystems was not decided (see DSN 5,21 P. 169).

- 2) Bill's proposal to set time limit or SRU limit to the users validated limit when nnn or a T,nnn or S,nnn command exceeds the validated limit was reluctantly accepted.
- 3) Kevin Fjelsted's proposal to move NOTE and ENTER into CONTROL was accepted (see DSN 5,21 P. 170).
- 4) S. Yen's proposed new CALLPRG entries were approved.
- 5) Kevin Matthews' proposal to install a DSD ENABLE/DISABLE option for error idle was accepted (see DSN 5,21 P. 171).
- 6) Ted Hodapp's proposal dealing with APL was accepted in its entirety. Some people were not too happy with the number of new workspace user numbers (see DSN 5,21 P. 172).

A discussion of Marisa Riviere's article on Library Confusion caused much frustration and led to the formation of a subcommittee to hash out the matter. The numbers are LAL, MJF, SAR, EJM, MR and WTS.

Bill Sackett reported that the KRONOS to NOS conversion is proceeding well. Copies of the KRONOS to NOS upgrade document were distributed.

Jim Mundstock reported on the ADA conference he attended.

Larry Liddiard reported that a University committee is talking to Minneapolis Cable Systems about wiring the Mpls. and St. Paul campuses. Larry also mentioned that we are negotiating with CDC for some software projects. Likely projects are:

- 1) Design charge by usage feature in AD2000 and APEX.
- 2) PASCAL ISO standard maintenance (1 year).
- 3) Screen Editor for IAF.

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Cyber Deadstart Dump Analysis from Monday, 5 November - Sunday, 18 November - K. C. Matthews

Tuesday, 6 November

15:49 (DD2016)

Cyber 172

15:49 (DD2017)

Cyber 74

Shared pack SHA was full. This pack holds all the shared queue files going between the two multi-mainframe machines. The system hung up for reasons not yet determined. A level 3 deadstart was required on each machine.

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Cyber 170-720 Deadstart Dump Analysis (11/5 - 11/18) - by R. A. Williams

<u>Date</u>	<u>Description</u>	<u>Tape</u>
791106	The scopes went blank when operators tried to read a seven track Cyber 74 tape on the 607 units attached to the 720. The tape was in long block form, the attempt was made from DIS, the channel hung and so did the system. I have removed 607's from the EST as MERITSS has not needed them for some time. Non MERITSS use of 607's on the 720 should be done outside of production hours!	Fixed
791111	During the NOS test period an SCR bit was set indicating PPU 7 parity error. An MAF was written but nothing has been found.	DDT-7

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TELEX and TELEX PDP11 Crash Analysis (11/11 to 11/17) - by D. W. Mears

11/16	15:18	Channel 4 on the Cyber 74 (the TELEX PDP11 channel) became hung due to a link malfunction. Everything was ok after the operators did a disconnect on the channel. This problem has not reoccurred and the diagnostics do not fail on this link.
11/9	15:03	Channel 2 on the Cyber 172 (the TELEX PDP11 channel) became hung full when LTD attempted to write to the link BA. Everything was ok after the operators did a disconnect on the channel. This problem has not reoccurred. The link test did detect one data corruption error during several hours of testing. The error cannot be reproduced.

I hope to improve link malfunction processing in LTD now that room has been freed up through the deletion of the correspondence terminal support.