

UNIVERSITY OF MINNESOTA COMPUTER CENTER  
Deadstart Systems Newsletter

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TABLE OF CONTENTS

NOTICE OF CHANGES TO THE SYSTEM . . . . .	91
PROPOSED CHANGES TO THE SYSTEM . . . . .	93
SYSEDIT PROPOSAL - K. C. Matthews . . . . .	93
Q - P. M. Thompson . . . . .	93
SYSTEM MAINTENANCE . . . . .	94
LAST WEEKS SYSTEMS GROUP MEETING - T. W. Lanzatella . . . . .	94
CALLPRG AND LIBRARY TAPE NEWS - M. Riviere . . . . .	95
CYBER 720 DEADSTART DUMP ANALYSIS - B. E. Blasing . . . . .	95

NOTICE OF CHANGES TO THE SYSTEM

Kevin Matthews changed SYSEDIT to use periodic recall rather than automatic recall after calling SLL. Readers should refer to the description of Kevin's change to SLL in last week's DSN (7,13 P. 83). What I failed to mention there was that all the system LIBDECKS were also changed so that nothing is placed in ECS during the level 0 deadstart. Instead, everything which should reside in ECS is placed there by the first sysedit in SYSPROC, the system initialization procedure. Because the volume of stuff in ECS is fairly large, SLL takes quite a while. When SYSEDIT calls SLL, SLL changes control points and moves to the system control point leaving the SYSEDIT control point with a zero PP activity count and no tape activity. Long ago, we changed PP monitor to check for this exact situation and to abort the job because record manager (or MANTRAP?) was prone to causing "job hung in auto-recall" situations. Using periodic recall fixes the problem.

And finally, Kevin changed the Cyber 730 CPU multipliers slightly. Turns out that the previous settings made the 730 a little too cheap.

Andy Hastings installed the following changes.

- 1) Dumps arising from MAGNET aborts are now routed to Andy's bin.
- 2) The DISPOSE command in DSDI, the deadstart dump interpreter, (not to be confused with the old DISPOSE command) was reinstated and made to call DSP. The command had been deleted as part of the DISPOSE purge which occurred some time ago.
- 3) DSDI was changed so that it can be executed from a local file. The primary difference between running as a local file and from the system is that online deadstarted PP's cannot be dumped.

- 4) DSDI was changed to work better from a terminal. The REPRIEVE function is used to disable and process terminal interrupts. Also, several report formats were altered to be readable from a terminal.
- 5) USERS/DSD was modified so that duplicate lines on the memory displays are not repeated.
- 6) DDFILE was corrected so that EOF's are listed properly. Previously they were indicated as EOI's. DDFILE is the CPU portion of DDF.
- 7) The TAPES utility was changed so that secure password entry can be used with the TAPES(OWNER,...) command. Additionally, secure parameter processing, the way in which sensitive data is blanked out before the command line is echoed in the dayfile, was redone and brought up-to-date using the CDC common deck COMCRSP.
- 8) TRN, the PP-helper for TRANSIT was changed so that the commands which are executed by TRANSIT are no longer assembled into TRN. Instead, they are kept on a procedure file under user number SYSTEMX.

Paul Thompson installed the following changes.

- 1) DUMPPF was corrected so that a PN=0 parameter actually causes DUMPPF to load or dump the default family. Previously, if a pack name had been declared, PN=0 would be ignored and the current pack name would be used.
- 2) Processing of the DUMPPF SUN command (analogous to the real SUN command - sweetheart of the console hogs) was corrected so that it works regardless of the condition of CAC2. The DUMPPF SUN command is used only from systems origin and most often for permanent file archiving.
- 3) The UN option in DUMPPF was extended so that it can be used from non-system origin. Of course, only public or permitted files can be accessed this way.
- 4) Program UQM was corrected so that it checks for queue protection enabled properly.

Marshall Midden delivered a new version of XEROX with unspecified changes.

Joe Goodman installed his proposed change to UNPAGE (see DSN 7,13 P. 85).

## PROPOSED CHANGES TO THE SYSTEM

Sysedit Proposal - by K. C. Matthews

SYSEDIT writes a message in the B-display for each record being copied to the system file. But then at the end, the message:

GENERATING LIBRARY DIRECTORY

appears for the final 30 seconds or so. I have developed a set of messages which tell more precisely what SYSEDIT is doing. The messages are useful only for debugging SYSEDIT and relieving boredom. I propose that we add these to SYSEDIT. The following messages will then flash by:

COPING LIBRARY DIRECTORY.  
PROCESSING DELETE DIRECTIVES.  
WRITING SYSTEM LIBRARY DIRECTORY.  
SETTING PROGRAM RESIDENCE.  
GENERATING RELOCATABLE LIBRARY DIRECTORY.  
GENERATING COS LIBRARY.  
BUILDING MS PPU LIBRARY.  
ADDING name TO MS PPU LIBRARY.  
GENERATING PLD.  
ADDING name TO CM CPU LIBRARY.  
ADDING name TO CM PPU LIBRARY.  
WRITING ALTERNATE SYSTEM DEVICES.  
COPYING name TO ALTERNATE DEVICE.

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Q - by P. M. Thompson

A source of aggravation in the past has been the lack of control that a user has over jobs he has submitted, and files he has routed. There have been many times when I have realized that the job I just submitted will not work, or I forgot to specify DC=A9 on my ROUTE card, but all I could do is see the names of my jobs, sitting patiently in their queues.

To address the problem, I have heavily modified a program written at Georgia Institute of Technology, which does the following:

- 1) Allows a user to obtain more information about his job/file, including priority, origin type, last control card, number of SRUs used, and the dayfile from the named job. In the case of a print or plot file, the BIN number and external characteristics are also included.
- 2) Allows a properly validated user to purge files or jobs which belong to him. The purged job would be charged for the resources it had used up to that point.

Thus, to get the dayfile from the first job found belonging to the user (not including TELEX jobs) he would execute the control statement:

Q,D. (Q is the name of the program, and D selects the dayfile option)

To purge a print file on the C-74 from the C-730, he would enter  
Q,PG,JN=AOHA156,MI=74.  
(For the purge option, PG, the entire jobname must be specified).

I propose to put Q on the system.

SYSTEM MAINTENANCE: People and Procedures

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

The only proposal discussed was Joe Goodman's suggestion that UNPAGE be enhanced to handle 8 lines-per-inch listings. Joe's proposal was accepted with the stipulation that PD=0 is the default and that PD alone is the same as PD=8 (ala COMPASS) (see DSN 7,13 P. 85).

Marisa Riviere's discussion topic regarding MECC Callprg versus UCC Callprg led to a consensus that MECC's version of Callprg should become the standard. To accomodate tape resident packages, the MECC Callprg would simply call another program. None of this can happen until the Writeup project is done since MECC's Callprg cannot handle writeups.

J. L. Pomeroy's suggestion that the SSJ= entry point be removed from Callprg was enthusiastically received but because Callprg needs SSJ= in order to handle tape, not much can be done.

TWL made a brief presentation of how the R5 upgrade is progressing. So far, about all that has occurred is the division of labor.

- 1) People available to work on the project are Mears, Midden, Wells, Kovarik, Hastings and Fletcher.
- 2) DWM must prepare a UCC Newsletter for the August issue.
- 3) DWM will handle the DSN material related to the R5 upgrade.
- 4) TWL will write the Upgrade document for users.
- 5) Product set installation will be handled by MR, SAR and SS.
- 6) Writeup CONTROL will be done by RTF and TWL.
- 7) Chiding Callprg package owners into testing their programs on the new system will be handled by DWM.

TWL polled for current data on the state of the VAX installation at IPC.

- 1) The maiden voyage is still scheduled for 1 August.
- 2) Modems (1200 Baud dial-up) are due about 30 July.
- 3) Pascal, Fortran and Cobol have been ordered and are due in the first week of August.

- 4) SPSS and SCSS have been ordered.
- 5) TELEGRAPH and DISPLAY are here.
- 6) TEK has been ordered.
- 7) SPN is working on WRITEUP(SERVICE=IPC). SAR has already published a brief UCC newsletter article.
- 8) SRI EUNICE is on order.
- 9) Accounting will be ready by 1 September (maybe).
- 10) Operational procedures for this site (PF dumping, hours, etc.,) are not yet established.

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Callprg and Library Tape News - by M. Riviere

On July 20, Lincoln Fetcher modified the C74/720 Callprg index by adding entries for past versions of MLABELS, DOPROG and MAILING. This will be the last change made by Lincoln on our system. We wish him luck at his new job.

There are no other modifications requested for July 28.

The next set of Callprg index and Library Tape modifications will be taking place on August 28. Modifications for that date should be requested before August 18, by noon.

MERITSS (Cyber 720-730-172) Deadstart Dump Analysis from 6/5 to 6/30)  
- by B. E. Blasing

Thurs. 6/18, 01:35                      Hardware = 730                      DD4

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The system hung after end of ops during the PF dumps. It appears that a copy of CIO hung with channel 2 reserved. Unfortunately PP's 0-4 got overwritten on the dump tape after the successful recovery, so resolution seems unlikely.

Mon. 6/22, 17:28                      Hardware = 172                      No Dump

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A stuck freon valve on the mainframe caused the mainframe to power down.

Thurs. 6/25, 14:45                      DD5

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DN40 (EQ1) failed solid. A level 0 deadstart was required and DN40 was moved to the WIZARD pack.

Sun. 6/28, 22:45                      No Dump

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Same as 6/25. Some confusion in where to move DN40 caused the system to be down until 00:00.

Mon. 6/29, 08:55

DD7

The CE's were fixing an ECS problem and several PP's loaded up memory test patterns and executed them even though DISABLE ECS/ALL and DISABLE ECS/FUNCTIONS had been entered. Some work is needed here to see if DISABLE ECS/ALL really works.

Tue. 6/30, 19:45

DD10

Same as 6/28.