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NOTICE OF CHANGES TO THE SYSTEM

Tim Salo delivered a source version of ISA, an auxiliary PP program which performs XMIT/SEND functions for SUPIO. We have been running without a source of ISA on WPL since the advent of XMIT/SEND. Additionally, Tim contributed an initial version of his proposed QUEUE utility (see DSN 3, 12 p. 6). The QUEUE utility provides users with a delay queue inquiry capability.

Don Mears repaired a timing problem in LTD which caused 1200-baud transmission of lower case characters to occur at half speed. Don also repaired another problem in TELEX processing of terminal recovery uncovered by SETVAL. The line condition HALF or FULL DUPLEX is now restored correctly after a TELEX crash. The use of SETVAL allowed users to preset several terminal options in the VALIDUZ file instead of typing them in at the start of each session. Thus far, terminal parity (see DSN 3, 13 p. 1) and DUPLEX are the only SETVAL options which were not recovered.

Brian Hanson installed a new TDUMP option, LW. The LW option is used to specify the line width of a TDUMP report (see DSN 3, 10 p. 8). The option can take the form LW=LP (132 column) or LW=TT (70 column). Brian also altered the programs PACK, SORT and RESEQ to preserve file ID and STATUS when the source file is the same as the destination file (as in PACK,lfn.). This eliminates most of the inconsistent treatment of NODROPPed and LOCKed files. This change also eliminates any need to LOCK a NODROPPed file. This will be repaired on the next new system.

Marisa Riviere installed the following changes to CALLPRG.

1. The writeup index is now entitled Index to Documentation Files on Writeup.
2. MS type messages on the CALLPRG index entries are now properly output to timesharing users.

3. MERITSS users must no longer suffer through the XMIT delay message when there are no files to retrieve (as in FUTURE,FTN.).
4. CALLPRG will now inform the MERITSS user when ECSXFER or XMIT are not enabled.

Jeff Drummond contributed the following changes:

1. Treatment of the TELEX NUSERS (number of active users) count was changed so that a terminal is not active unless the user is fully logged in.
2. The MAGNET DSD displays (E,T and E,P) were corrected to display MAGNET NOT ACTIVE when MAGNET is not active.
3. A micro for the screen-clear character was added to COMSTCM.
4. KRONREF was altered to use a more specific search for monitor function symbols.
5. TELEX was altered to ensure that a \$ prefix is always added to the CALL generated by a - (dash) type procedure call--a bug list item.
6. XMIT/SEND buffers were moved down 1000B words in ECS to facilitate future changes to XMIT/SEND. A corresponding change was installed by Tim Salo in 1SA.

#### PROPOSED CHANGES TO THE SYSTEM

The SSORT Control Card - by K. Fjelsted

I propose to add a new control card called SSORT. The SSORT program (written in COMPASS) performs a shell sort in ascending, descending or random order on a file containing lines of arbitrary length. The statement format is:

SSORT(lfn,C,R)

where: lfn is the file to be sorted, C is the column number that the sort uses, and R indicates whether the sort is ascending or descending. The parameters are order dependent. If R is specified as \*, the sort is random. The default file is the primary file. Default order is ascending. This program is much easier to use than SORT/MERGE, is very fast and uses very little memory. The current sorting program on UN=LIBRARY is very slow.

#### SYSTEM MAINTENANCE: People and Procedures

Last Week's Systems Group Meeting - by T.W. Lanzatella

1. John Strait's proposal for an updated version of ARCHIVE was approved (see DSN 3, 13 p. 3). We suggested that a more appropriate keyword for ignoring certain files would be IGNORE rather than EXCEPT.
2. John Strait's suggested change to master user access to subordinate's protected permanent files was approved (see DSN 3, 13 p. 4).
3. Bob Zalusky's proposal to ensure unique user indices over both machines was approved in principle but will require so much coordinating and interaction among UCC groups that a wider consensus should be obtained.

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Saturday Night End-of-Ops on the 6400 - by W.T. Sackett

As of 77/07/23 a Cyber operator will be coming in at 1:00 a.m. Sunday to do end-of-ops for the 6400. The 6400 should be available for system time by 0230 at the latest (and usually by 0200). The official shutdown time remains at midnight Saturday so there is an hour for non-destructive (i.e. do not bash the dayfiles or permanent files) system time. It is possible for systems staff to use the machine by 0130, but to do so they must do full end-of-operations following the procedures in the 6400 Operators' Guide (the procedures are presented in checklist form with detailed explanations under the appropriate headings--be sure to refer to the detailed sections if it has been a while since you have read them or if you have any doubts as to proper procedures).

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Have a Little Heart - by R.T. Franta

Having spent the last year updating the store of WRITEUP listings in the O.D. room, I have discovered something which could be a problem. If you simply replace a file used by WRITEUP without making a change of date using Brian Hanson's program, the change will be invisible to all concerned. This means me and other users. I know a number of users in addition to myself who use the D= parameter on WRITEUP to maintain current copies of documents. A simple replacement of file makes it very difficult for us to remain current. Please be sure to make a date change whenever necessary to help eliminate this inconvenience.

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Callprg Library Tape News - by M. Riviere

On August 2, Brian Hanson will be introducing a new Callprg package called REENTRY.

REENTRY is a utility which inserts RFL= or MFL= entry points into user programs. The need for a utility such as REENTRY was described by Kevin Matthews in the April 26 issue of DSN (Vol. 3, No. 8, "Loading Absolute Overlays") and in the June UCC Newsletter ("Loader Changes"). REENTRY is going to be installed as a control card callable package. The documentation for REENTRY is available through Writeup.

B. Hanson will also be changing the PROCLIB section of FT3LIB in the Library Tape and in FUTURE,FORTRAN on Callprg. Brian is repairing a problem in PROCPFM.

Also on August 2, John Strait will be placing the future version of PASCAL as a 6400 file instead of having it retrieved from the Cyber as an XMIT type file.

Please note that the Loader modifications for field length allocation will be taking place on August 21. Make sure to change the Callprg index cards for the packages that may need to use the MF and FL parameters. Also binaries should be changed to allow proper field length allocation for successive executions. There is a description of the MF and FL parameters in the May 24 DSN (Vol. 3, No. 10, "Field Length in Callprg Overlays").

The Loader modifications are planned to be included for testing on the System time system by next weekend. Tests using local Callprg Indexes can be made for the products that will need modifications.

The next Library Tape and Callprg Index modifications will be taking place on August 16. Requests for modifications should be submitted no later than noon, August 4.

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6400 Dump Analysis - by W.T. Sackett

<u>Date</u>	<u>Description</u>	<u>Tape</u>
770702	ECS caused system crash--unable to dump ECS to express tape.	DDT-7
770705	844 channel 7 hung full. Problem is now isolated to two cards in the controller.	
770708	CIO hung on RTCM. The FST entry for the file being processed consisted of a slightly modified version of the contents of the system FNT pointer word. The FST entry was bashed prior to the CIO call that hung on RTCM.	DDT-5
770711	844 error on channel 6. Users unable to log in.	DDT-3
770719	Two DIS jobs at the same control point picked up N.ASSIGN display channel at the same time and hung the display channel.	Fixed
770722	Word 1 absolute was zero and the PP communications area had what appears to be an exchange package written into it. A user program was active at the time (MTR was hung on an *RCLM*). Problem still under investigation.	DDT-13