

UNIVERSITY OF MINNESOTA COMPUTER CENTER
Deadstart Systems Newsletter

SECT
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Send all comments, criticisms and contributions to the editor: T. W. Lanzatella
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THE EDITOR TAKES A VACATION - by R. A. Williams

No, XEDIT didn't stop working; Tom Lanzatella, our intrepid Deadstart Systems Newsletter founder and editor has been on vacation for the past two weeks basking in the sun while constructing a stone wall at his home. In his absence, I, recognizing an opportunity to totally eradicate the great reputation this august organ (September piano?) has built up over its short lifetime, graciously offered to substitute for Tom at the editor's desk. You will note that I have siezed upon this chance to infiltrate the publication with my own scandalous material with relish (ketchup, mustard), and take full responsibility for the resulting document.

In any event we will all be glad to have Tom back with us for the next issue.

NOTICE OF CHANGES TO THE SYSTEM - by K. C. Matthews

Despite Tom Lanzatella's absence, a new deadstart tape has been written. K.C. Matthews assembled the mods and produced the tape, which will be used starting Thursday morning, September 9. A synopsis of the changes to the system follows:

Two procedural changes have been made with the latest deadstart tape.

- a) The TELEX driver, 1TD, and its overlays 2TD, 9JA, 9JB, etc. are no longer on the deadstart tape. Instead, they are SYSEDIT'ed in by the ISF procedure at each level 0 deadstart. This has been done so that a separate driver can be used on each machine, with little probability of bringing up the wrong version. N. L. Reddy has promised a unified 1TD that will determine what kind of hardware it is driving by the end of 1976.
- b) The standard CDC routine, ISF, checks for files called SYSPROC and SYSJOB on user number SYSTEMX. If present they are a procedure file for execution and a job for submission, respectively. Our mods allow the file name to be changed with P and J equivalenced parameters on ISF.

With this tape we begin using this feature to allow the special deadstart files to vary from deadstart tape to deadstart tape. In the new IPRDECK there is the DSD entry X.ISF(P=SYSAA). If ISF must be called by hand, remember to say P=SAA or the wrong procedure will be called.

Procedure SAA gets changes from two files on STF:

KLDGAA contains Kludge changes.
1TDAA contains 1TD binary.

When the next tape is written, the procedure file SYSAB will be called and correction files KLDGAB and 1TDAB will be used. In this way one can move between current/past/future tapes with the correct procedure files being called.

The following changes were made to the deadstart tape programs and libraries:

The following CDC corrective code mods and UCC generated corrective code mods from the 6400 system which were not yet fixed on the Cyber were installed by Bill Sackett and Bob Williams:

TCSRSS - Correct 1AJ EXCST request when an odd address is used for a relocatable load.
CIOU10 - Correct backspace error on large track sizes.
PERCHK - Insure permit sectors are large enough.
DISCAL - Correct control point used by DIS for PP calls.
KDISP - Insure the DSD K display writes in bounds.
PREERR - Insure an unrecovered device is not overwritten with error log.
1RI6 - 1RI was not storing all of MA.
PRESYN - Insure DSD syntax table is not too long.
KRA275 - Buffers weren't being flushed on OPEN ALTER.
SLL6 - SLL was not checking field length correctly.
TRTLNK - Insure that if EOI is the first sector of two files, TRT linkage error is still diagnosed by MSM.
ABTIMS - Abort IMS if non-SYOT call.

Mods PROTCT, PFACT, GENPFM, and PFMOD were resubmitted with documentation changes.

Bob Williams fixed a bug in COPYCAT that caused it to abort with a mode 1 if the number of accounts was a multiple of 100B. He also changed COPYCAT to indicate file protection status and removed the file security indication. The modset is called PFPTC.

Bob also modified Al Johnston's mod, RTCB, to allow installation of a CDC correction to 1RO without conflicts, and changed CMRDECK 10 for the 6400 tape channel change.

K. C. Matthews added mod DSDENA which allows for more ENABLE/DISABLE commands in DSD. All previous U of M mods which added ENABLE/DISABLE commands were resubmitted (AUTUNL, SUBSYS, PMS, LOWRAT, DIVERT, and ROTARY) by K.C. Unfortunately, DSD still doesn't assemble correctly even with FUTURE,COMPASS. The 65th DSD overlay (9B1) always comes out with about 1000 extra words in the binary. A kludge mod, DSDKLG, was added to insure that 9B1 is never called, and contains no code.

Kevin added the mod ISFPJ to incorporate the P= and J= parameters into ISF. These parameters are used to specify procedure and job file names other than SYSPROC and SYSJOB. Mod ISFNP was deleted. If no procedure file with ISF is desired, the command: ISF(P=0) is used.

K.C. resubmitted mod TKLIM to fix an error which could cause a system hang by destroying a direct cell on a track limit, and fixed a bug in DISPOS.

He also consolidated DSDR and DSDRA, mods by Bruce Johnson, into a single modset, DSDR, which creates the R display. And he corrected printing of colons by the PRINT control card.

Mod CMACU1 was added to COMCMAC to fix problems reported by Earl Schleske. Some macros called subroutines without the =X prefix. This caused a hardship for relocatable system macro users.

Kevin added mod PDUMP1 to PDUMP which creates the entry point PDUMP7 to allow for seven-track permanent file dumps.

Bill Elliott added his new TAPES program to MPL. Changes were made to the mod EXPRES, COMMON DECK COMSEXF, EXPRESS, and UFM to support the new tape code. The changes also fix the I/O sequence errors that have been occurring on the 6400 during permanent file dumps. The entry DISABLE,VALIDATION. no longer is required on dumping but is needed for loads, as in the past.

Bob Zalusky added code to mod LIMITS to allow for the protected file (CPPF) bit. PFMOD was updated to correct several permanent file control card bugs. Bob also resubmitted mod GENSOB to include a NOREF statement on some symbol definitions.

COMMON DECK COMCBDS was added to the system for eventual use with DVTVAL. We should, perhaps, consider whether this is a good idea. COMCBDS is essentially the program MUGWARN, which might be tempting for mischievous students.

Finally, Bob changed mod SEND to allow output type files to be SENT to the 6400.

Brian Hanson submitted mod LNKXRF to correct the listing of entry points in the LINK loader cross reference map. Mod LNKSTS replaces mod LODSTS, which collects LINK loader statistics. Relocatable load statistics are now only collected if PMS bit 1 is enabled.

Brian also added mods RAY1 and RAY3 to make several DSD commands valid only if the keyboard is unlocked, and enters some commands in the error log. Mod RAY2 requires the CEJ switch be on unless the CEJ/MEJ disable bit is set on the deadstart panel.

N. L. Reddy added code in a modset called UNHANG to prevent TELEX from hanging when initially brought to a control point. It is possible that the 6676 has some timing problem but this change should stop the current situation in which 1TD hangs full on the channel.

Mod CHAR63 was inserted to insure that the teletype back arrow will erase the previous character even on log-in. Essentially this sets the initial character set to TTYD, UCC standard. Reddy also resubmitted mod TXNAME to insure the bell following the terminal number is issued properly. In the process he discovered that, if the log-off message is interrupted, the terminal table is not cleaned up completely. This will be fixed sometime in the future.

A new CPU program called EXPORT was installed to support the soon-to-come version of high speed EXPORT.

N. L. Reddy and Tim Salo resubmitted mods LOWRAT and DELAYQ. MPL mod LOWRAT fixes 1BA to support the delay queue. Mod MUL1TD was resubmitted to correct documentation.

Jeff Drummond added GEN009 to generalize the sense switch PPCOM description. Mod 1DSTL insures infinite time limits for system origin jobs while MPL mod XMT1 gives ECSXFER an infinite time limit. Mod XMIT was changed to correct the fact that it did not properly validate XMIT permission.

Jeff also submitted decks SIMTALK and COMSTLK to add the TALK program to the system.

Jim Mundstock inserted a missing card in mod MINROL and changed CALLPRG to insure that XMIT requests from the 6400 were terminated properly on a user decision to stop. Jim also added a no XMIT parameter to index entries and has corrected creation of OUTPUT files by some CALLPRG XMIT requests.

PROPOSED CHANGES TO THE SYSTEM

This is a Friendly Warning - by R. A. Williams

Unfortunately we have been told that ours is not. The TELEX WARN command, which used to be printed at the terminal at what CDC felt was the next appropriate time, now acts more like the DIAL command, printing immediately. Many 6400 users are annoyed by this, since they have had their listings interrupted by warning messages of only moderate importance (like "the world is coming to an end"). They agree that some warnings (like "your pizza's getting cold") are of infinite importance and should be sent out immediately.

I propose that the current warning be renamed and the original warning method reinstated so it may be left to the discretion of the operator which is used (i.e., let's make it their problem).

This brings us to the issue which often yields the most stimulating discussions; the ever popular "what shall we call it"? Some suggestions have been made, including:

SOAP (Send Out to All People) by Mike Skow

LOVE (Let's Override Virtually Everything) by ?
MUTON (Mess Up Their Output Now) by ? (abbreviated LAMB)
DIALALL (Issue a DIAL to every User) by me

--Ed. note (Clearly the latter is the most sensible name, however SOAP isn't bad; ? should be banned from this newsletter!)

/////////

Lay it on the Line - by S. P. Yen

S. P. Yen suggests that SPSSONL (SPSS/ON LINE) be put on the MERITSS system in early Fall Quarter. He requests that any comments or questions on this plan be directed to him in the near future.

/////////

A Message is Forever - by R. A. Williams

When a TELEX warning is active, it may be cleared with the DSD command WARN. A message has no way of being cleared. The only apparent way to clear it is by entering a new message but, usually, one would rather just return it to the standard system name.

I propose that the DSD command MESSAGE. be implemented to return the system log-in message to the system name and version.

/////////

The Case of the Disappearing Display - by R. A. Williams

There is a bit on the deadstart panel that requests a display of the CMRDECK as part of deadstart. It seems that even if this is set to request the display, it is not shown if the panel is set to indicate the system device. I suggest that one or both of the following be implemented:

- a) Make the "show the CMRDECK bit" always effective, despite other settings.
- b) Allow the "SYSTEM=nn." CMRDECK entry to be entered in the text of the CMRDECK as well as from the console at deadstart time.

/////////

Display Code Core Changes - by W. T. Sackett

One mod that has not yet been brought over from the 6400 is one which eliminates the ability to make memory changes in display code (as 1,DSOMEDATA). This was done to prevent entry of things like 1,DROP. which could be a disaster (and has been entered on the 6400). To make display code changes, DIS may be used or the change may be manually converted to absolute octal. A side benefit of this would be slightly more room in DSD.

Ed. note - (This proposal was created in Bill's name by the editor).

//////////

Concerning Control Card Usage Statistics - by A. B. Mickel

Back in DSN Vol. I, No. 5, (15 July 1975), page 5, there was a short note concerning a proposal to gather accurate control card usage statistics. This was in response to a memo by Andy Mickel and John Strait on May 1, 1975 which is reproduced elsewhere in this newsletter.

On 10 August 1976 on page 3 of the DSN, Vol. II, No. 15, a proposal by T. W. Lanzatella suggested another solution. From what I understand this was appropriately turned down at the next System group meeting as being the wrong way to go.

I would like to suggest that Tom Lanzatella, Quentin Roggenbuck, Bob Williams, and myself get together to formulate a new proposal which would consider better statistics gathering in terms of:

- 1) Effort expended by the Operating System.
- 2) Space required by dayfiles.
- 3) Time spent archiving dayfiles to tape.
- 4) Time spent every day processing the dayfile.

MEMO TO: Barry Fox, Quentin Roggenbuck, Larry Liddiard, Jim Mundstock,
Tom Lanzatella, Kevin Matthews

FROM: Andy Mickel, John Strait

SUBJECT: Accounting for Control Card Usage Statistics, especially Language Processor

Today, Quentin provided me with the first full month's statistics for control card usage since we went to KRONOS September 1. For this I am grateful. Up until now I had been relying on disk access counts obtained from a CATLIST using LO=F of permanent files under the CALLPRG account number. This provided a rough estimate for only those language processors which were on disk and under CALLPRG; all others being very hard to find out about - (those under CALLPRG and on tape and those on the SYSTEM).

The program Quentin used to provide the recent statistics list processes the Statistics Dayfile containing LOSY messages (SYSTEM loads). This is a KRONOS (MERITSS developed-Ed.) feature not available under MOMS. CALLPRG in mid February was changed to simulate this message only when a program is used the first time in a job. CALLPRG makes the file local, causing subsequent loads of the same file to be local loads; this is an efficient way of doing things.

Only in the case of CALLPRG language processors (yes, you guessed it: PASCAL, LISP, and SNOBOLC) used under timesharing, is this phenomenon (more than one call per job) significant to distort the statistics. I would estimate that there are 5-10 calls roughly to a language processor per login session. (Note the increase of MNF usage from 7000/month average last year to 50000/month now - an increase due to timesharing).

We provide the users with the following language processor control cards:
ALGOL, APL, BASIC, BATCHER, COBOL, COMPASS, EMULATE, FTN, GPSS, LISP, MIMIC, MIXAL, MIXBYTE, MNF, PASCAL, PLONE, RUN, RUN23, SIMS, SIMULA, SNOBOL, SNOBOLC, UMRPG, UTALGOL.
Of these: ALGOL, APL, BASIC, BATCHER, COBOL, COMPASS, FTN, MNF, RUN, RUN23 are on the SYSTEM.

And: BASIC, EMULATE, GPSS, LISP, MIMIC, MIXAL, PASCAL, SIMS, SIMULA, SNOBOL, SNOBOLC, UMRPG, are under CALLPRG as permanent files.

Of these: LISP, PASCAL, SNOBOLC are also geared for timesharing use.

I (Andy) have written a program to process the System Dayfile for all language processor usage for the period Sept. 1, 1974 to March 17, 1975. After March 17, statistics have been provided by Quentin.

However the current method of language processor statistics gathering should be more like MOPS, which counted ALL uses of a language processor. The argument against this is that statistics are not completely accurate because of the possibility of the name of a local file coinciding with a control card but not actually being that control card. This of course results in much less distortion than there is currently caused by multiple calls to language processors under CALLPRG via timesharing. Therefore we request that 1) a change be made in accounting for statistics to remedy the situation (even if we go back to some old mode of statistics gathering) and 2) that this be done for the period March 17 to the time of the change - the period in which the new statistics have become available. Thank You.

//////////

Documentation of Non-Official UCC Products - by M. Riviere

Can we try to standardize the location of documentation files for FETCH type products that are not official UCC products, as well as any other unofficial documentation that we may want to make available among UCC staff?

This unofficial products documentation should not be included on the WRITEUP index as this is an official source of UCC documentation, however it would be nice to have it in some common, easily accessible spot.

One option would be to place the documentation file on the WRITEUP account number, named for the product it describes, and let anyone acquire and list it.

Another possibility is to make it FETCH type, naming it for the product it describes with the suffix DOC added or replacing part of the name.

Are there any other ideas? Please let us decide soon. Documentation for FETCH type products is increasing and it would be nice to organize them.

I am not suggesting that we must start enforcing where unofficial documentation should be. I assume that whoever sets up the documentation for something does it such that it is easily accessible to everyone and will not mind, therefore, a suggested standardized method for making documentation available.

If we agree on a set-up that seems convenient to all of us, I will start suggesting it to whoever wants to make unofficial UCC documentation available.

(There is more on this type of issue by A. Mickel in his discussion of COPYM under the SYSTEM MAINTENANCE section) - Ed.

SYSTEM MAINTENANCE: People and Procedures

Loader Statistics or Who Knows What Evil Lurks ... (Knievel?) by R. A. Williams

The Shadow never would have known this! Over the past few months we have tried

to indicate to the Systems group the devious methods employed by users of the 6400 instructional timesharing system to thwart security. Our comments have met with general disbelief or uncontrollable laughter. Undaunted, we try again.

To keep statistics on how often various FORTRAN library routines are used, a file resides on user number LIBRARY in PUBLIC WRITE mode. The file does have a password, assembled into the loader. Within a week after the file went up on the 6400, it contained the text of a randomly generated melodramatic script and the parts of a 10 foot square maze (as in the "help the mouse find the cheese" type puzzles).

The scenario is that the binary of the loader was acquired, by interrupting a load in progress to acquire the system file, and the password extracted from it. The file was then attached in write mode and filled up.

Be sure to tune in next time. We're bound to have another tale of suspense from the 6400 Mystery Theater.

/////////

Information about COPYM - by A. B. Mickel

The handy, dandy copy utility, COPYM (multiple file disk copy utility) is available to staff under FETCH. It is similar to the MOPS version of CBF which did double buffering and used control bytes to copy. Included here is a brief description of COPYM for staff info., but perhaps we should have an indexed writeup named UCC for documentation of staff utilities such as COPYM,PP,DECODE,OPLEDIT, PLAP,SPRUCE,CPOPL,SQUEEZ,SORTOPL, etc.

The general form of COPYM is:

COPYM (input file, output file, number of copies, rewind option)
a total of 4 fixed position parameters.

Defaults are: COPYM(INPUT,OUTPUT,1).

- NOTES: 1) Maximum number of copies is 131071.
2) The presence of the fourth parameter, (R), rewinds the input file and the output file before and after copies. The input file is rewound before the copy only otherwise.
3) The input file may not be OUTPUT.
4) Tape files may not be COPYM'ed.
5) Binary copying is performed.

COPYM is most useful for producing multiple copies of listings - it is more efficient than CBF and requires fewer dayfile messages than a KCL loop.

/////////

Of Course We Keep A BACKUP - by A. B. Mickel

Back issues of the DSN are obtainable from Tom Lanzatella at Lauderdale. Tom also keeps a book of Systems' group procedures, including:

- 1) All back issues of the DSN.
- 2) CALLPRG memos.
- 3) Documentation memos.

- 4) Libraries/compilers memos.
- 5) Other important memos entitled "HOW TO AND WHY."

Andy Mickel also provides these services at Experimental Engineering.

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At the Last System Meeting - by R. A. Williams

Or should we say not at the last System meeting. Both Tom Lanzatella and Larry Liddiard were conspicuously absent from the last System meeting (that is, the meeting that took place two weeks ago), both being on vacation. We carried on without them, however, as K. C. Matthews chaired the meeting, the System Group tabled discussion of the DO control card until TWL and LAL return and we applied various other pieces of furniture to remaining matters. The status of the system consolidation was discussed (or was disgusting, depending on your viewpoint --No not really--). The remaining system bugs were examined and assigned to volunteers.

//////////

CALLPRG - LIBRARY TAPE CHANGES - by M. Riviere

On August 22 I replaced the library routine RAMNS=, part of the FORTRAN library, on the Library Tape, with the level 11 version. RAMNS=, level 12, was causing problems with random I/O. J. Mundstock suggested the change. If this problem is not fixed by CDC corrective code in level 13, local UCC modifications should be made to RAMNS= in order to keep a consistent source of the CDC section of the FORTRAN library subroutines in a single OLDPL. The remainder of the CDC section of FORTRAN is updated to level 12 and does not yet have local modifications.

On August 26, the future version of MNF became current and the current version became PAST.

On August 31, B. Hanson changed some of his PROCPAC routines on FT3LIB, on the Library Tape, by new updated versions.

Also on August 31 I replaced the SYMPL compiler on CALLPRG by a version updated up to level 12. SYMPL resides on a CALLPRG library tape.

Between August 31 and September 4 the following products were removed from the Library Tape:

MNFOLD was dropped since it was already replaced by TSF.

The FTN3 overlays were removed since FTN3 was modified to load its overlays from a local file instead of from the System and installed on CALLPRG as such. COBOLX, an old set-up for the time-sharing COBOL compiler, was removed and the time-sharing version of COBOL was installed as a CALLPRG package. The index entry, COBOLX, used by TELEX when a reference to the COBOL compiler is made from a time-sharing terminal, is set up to retrieve the time-sharing COBOL compiler and its library, TSCLIB, as a user library, under the name of COBLIB. TSCLIB was also removed from the Library Tape.

COBLIB, the COBOL 3 library was removed. COBLIB was set up more than a year ago as a user library to be retrieved through CALLPRG when PAST, COBOL is used, and also made available as the FETCH type file, SYSMISC.

COMPAS2 and SYSTX2, that were called by the version of RUN in usage until September 4, were dropped, since the new version of RUN will not be using them. RUN was replaced in CALLPRG by a version that links with COMPASS level 12.

Also between August 31 and September 4 the no longer used CALLPRG entries for the current versions of SORTMRG, SNOBOLC, ALGOL, PASCAL, PSCLIB and PASCLIB were removed. All these products have been included in the Library Tape with the exception of PASCLIB, which was dropped.

On September 4 I replaced RUN and RUN23 on CALLPRG with the 6400 version of RUN. RUN23 and RUN are identical. RUN23 is kept only to be consistent with documentation.

Also on September 4, J. Strait introduced the two new FETCH type packages on CALLPRG, ARCHIVE and DMP2ARC. ARCHIVE is a new permanent file DUMP/LOAD utility and DMP2ARC is a conversion routine that converts DUMPPF tapes to ARCHIVE format. John has documentation available for ARCHIVE on a file called, ARCHIVE on YZE6000, on the SP pack.

//////////

6400 CALLPRG Index - by M. Riviere

The 6400 CALLPRG index and the Library Tape do not yet reflect the changes that took place on the Cyber 74 within the last two weeks.

With the exception of critical changes, I am waiting at least until mid-September to provide the 6400 with the latest changes. I want to avoid CALLPRG and Library Tape problems, if there should be any, until the consolidated operating system is more stable.

//////////

The Perplexing Problem of the Proliferating Possibilities Which are Present to Perform Status Enquires, Prepared After Painstaking Perusal of Palpable and Imperceptible Proof - by J. J. Drummond (title by Editor)

Jeff has observed several interesting inconsistencies which are inherent in the design of the STATUS and ENQUIRE features of the System which the editor felt were worth sharing.

The timesharing command E,A is equivalent to the BATCH control card ENQUIRE (OP=A). The timesharing command STATUS (abbreviated STA) is equivalent to the timesharing command ENQUIRE (abbreviated E). The BATCH control card STATUS is equivalent to the timesharing command E,A (which in turn is equivalent to the BATCH control card ENQUIRE (OP=A)). The STATUS,A control card is equivalent to the ENQUIRE control card. The SUMMARY control card is equivalent to the STATUS,R control card (or the STA,R timesharing command) which in turn is equivalent to the E,R timesharing command (or the ENQUIRE (OP=R) control card). The E,R timesharing command generates a STATUS,A control card, as does the STA,A timesharing command. The SUMMARY,A control card is equivalent to the STATUS,A control card and the ENQUIRE (OP=A) control card, all of which are identical to the E,A and STA,A timesharing commands.

This means that as BATCH control cards, ENQUIRE, STATUS, and SUMMARY are almost identical. ENQUIRE,option; STATUS,option; and SUMMARY,option; are in fact identical. ENQUIRE and STATUS with no option are identical, whereas SUMMARY without a parameter is identical to ENQUIRE,R (or ENQUIRE (OP=R)) and STATUS,R.

As timesharing commands, ENQUIRE (abbreviated E) and STATUS (abbreviated STA) are identical to each other, but not to their BATCH counterparts. E,option and STA,option are identical to each other and to their BATCH counterparts - both generating a STATUS,option control card. SUMMARY is identical to its BATCH counterpart.

(Our thanks to Jeff (sometimes referred to as Mr. Bug for his uncanny ability to uncover errors in the system) for this insightful investigation.) - Ed.

/////////

System Consolidation Status or "Try to Remember the Kind of September" - by R. A. Williams

Unfortunately, we can't characterize the system consolidation status as fantastik. The 6400 has experienced scope blankings, 1TA hangs, and CIO hangs throughout the two weeks since the consolidated system was put up. The situation has not been disastrous but does bode ill for the future as, within a month, usage will more than double. We also still have efficiency problems and a list of bugs to correct. Rather than publishing the list or summarizing our crashes, I will simply ask that anyone with free time (HA!) please come to sign up to look at a dump or fix a bug (such a deal!). I promise to pass these bugs out as white elephant gifts at the Christmas party if they are not fixed soon.

CONTROLE DATA
SUNNYVALE, CALIFORNIA

PROGRAMMING SYSTEMS REPORT

Ref. No.

Date AUGUST 1, 1974 Submitter Ref. No. 256

TO: PSR COORDINATION

CYBER 215 MOFFETT PARK DRIVE
SUNNYVALE, CALIFORNIA 94086

3000 4201 LEXINGTON AVENUE NORTH
ST. PAUL, MINNESOTA 55112

1700 4455 EASTGATE MALL
LA JOLLA, CA 92037

FROM: R. A. WILLIAMS

NAME

MINN

INSTALLATION

373-4573

PHONE

CDC CONTACT NAME

LOCATION

SIGNATURE (MANAGER FOR TYPE 3)

MACHINE	OPERATING SYSTEM			PRODUCT		
	NAME	VERSION	CORR. CODE LEVEL	NAME	VERSION	CORR.CODE LEVEL
6400	KRONOS	2.1	5			

CHECK APPROPRIATE BOX

Type 1 - Error Inquiry
Published in PSR Summary

Type 2 - Improved Code
Not Published in PSR Summary

Type 3 - Feature Modification
Not Published in PSR Summary

DOCUMENTATION ENCLOSED

Program Deck
Data Tape
Listing
Core Dump
Timeout

FOR INTERNAL USE ONLY

Acknowledge Receipt _____

Ans. in Summ. _____

REVIEW:

RECOMMENDATION:

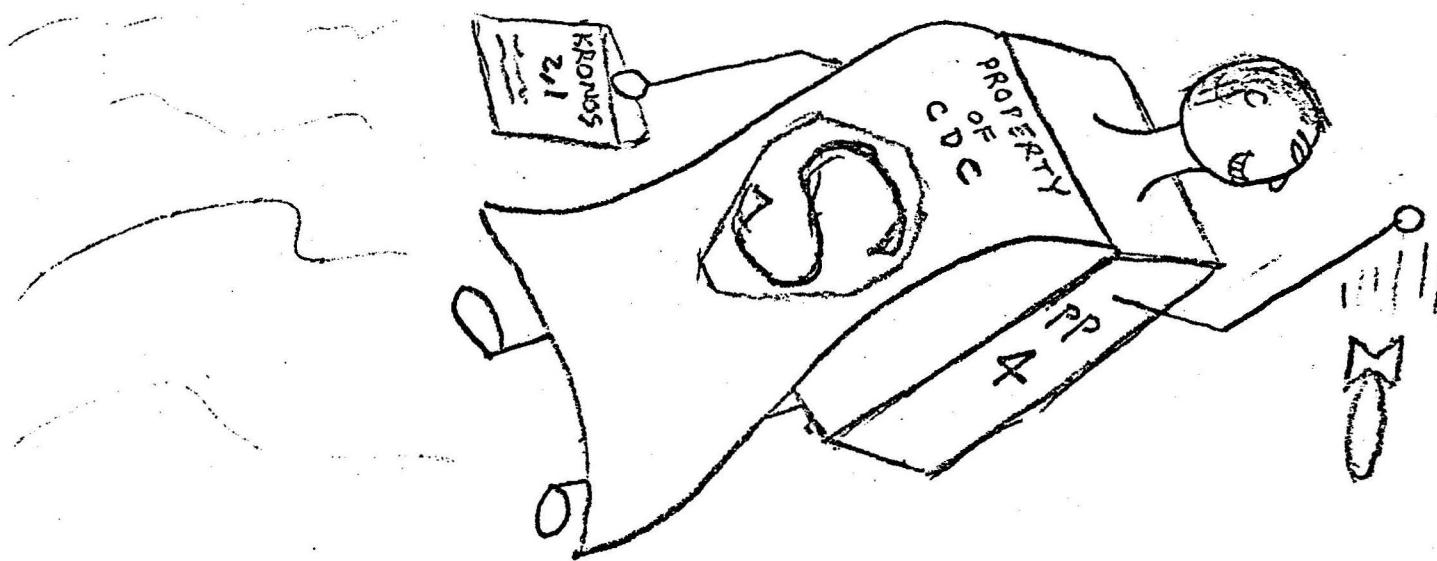
Date of Reply _____

FINAL ACTION:

Ack. Disp. To CDC CONTACT

DESCRIPTION OF INQUIRY:

FASTER THAN A SPEEDING OPERATOR ; MORE
POWERFUL THAN LOCAL MODS ; ABLE TO HANG
THE PP WHILE PERFORMING THE SIMPLEST
FUNCTION -- LOOK, THERE AT CONTROL POINT 2,
IT'S 1MT ; IT'S 1TA ; NO, IT'S SUPER
PFU !



BE WITH US NEXT TIME FOR "THE LONE TELEX
ADES AGAIN."

CDC
844 DISK