

LABEL 00000000LINE 00176349CC EX 0/R;COMMON=1;FILE S=CANDE/PATCHES;END+

0 /R

FILE: CANDE/PATCHES TUESDAY 12/14/76 06:15 PM

\$@ LIST MERGE
\$@ LOCAL ZIPARRAY
\$. 41 PATCHES FOR CANDE.XVI.0.5.28
\$*COMPILE CANDE16/TSHARER WITH XALGOL FOR LIBRARY. [DAVE]
\$*ALGOL FILE TAPE=SYMBOL/CANDE TAPE.
\$*ALGOL FILE LINE=15111S6/CANDE BACK UP TAPE.
\$*ALGOL FILE LINE=15111S6/CANDE BACK UP DISK.
\$*ALGOL STACK=1023.
\$*ALGOL PROCESS=15:00;ALGOL IO=15:00.
\$*ALGOL CORE=16500.
\$*PROCESS=11:00:00;IO=11:00:00;CORE=6000.
\$*DATA CARD.

BROCK UNIV.
PATCHES TO CANDE

MARK 16.0

\$@
\$ SET TAPE CHECK SINGLE SEQERR COMMS
\$ SET LIST BEND FORMAT PRT RESET LISTP
\$ RESET LIST BEND PRT FORMAT SET LISTP
\$ SET XREF
\$ RESET XREF

\$# PATCH NUMBER 105 FOR CANDE.XVI.0 CONTAINS 4 CARDS.
IF T = 0 THEN A [BASE] + -1 ELSE 59001800
(F + IF A [BASE] < 0 THEN 0 ELSE A [BASE]) & 59004400
FILETYPE [32:42:6] & UNLOCKTOGGLE [31:47:1]); 59004450
IF A [BASE] > 0 THEN WORK [3],[2:10] + A [BASE]; 59010700

\$! SOFTWARE FLASH # 120
\$! THIS PATCH CORRECTS PATCH NUMBER 3 OF MARK XVI CANDE. PRIOR TO THIS
\$! PATCH, THE SAVE=FACTOR OF THE SOURCE AND OBJECT FILES WERE ZEROED IF
\$! TWO "SAVE"-S WERE DONE FOR A FILE WITH NO INTERVENING UPDATES.

\$! D.G. WILLMS, 23FEB76.
\$# PATCH NUMBER 400 FOR CANDE.XVI.0 CONTAINS 1 CARD.
MATCH (WORD,"LIBRARY") LIB := TRUE ELSE 56007650
\$! THIS PATCH ALLOWS THE WORD "LIBRARY" IN THE LIST VERB (AS PER MANUAL).

\$! D.G. WILLMS, 9MAR76.
\$# PATCH NUMBER 401 FOR CANDE.XVI.0 CONTAINS 2 CARDS.
DS := 7 CHR; 00069800
TALLY := 12; 00069900
\$! THIS PATCH CREATES A 7 CHARACTER HEADING FOR THE LIST VERB. THE VERB
\$! ALLOWS 7 CHARACTER NAMES, BUT ONLY LISTS THE FIRST 6 IN THE HEADING.

\$! D.G. WILLMS, 9MAR76.
\$# PATCH NUMBER 402 FOR CANDE.XVI.0 CONTAINS 1 CARD.
IF (SEQ:=EVENTS [3]) = - USERCODE THEN A [BASE+3]:=0; 44006600
\$! THIS PATCH UPDATES Q-MARK STATUS.
\$!
\$! THIS PATCH CORRECTS THE RESULTS OF A Q-MARK STATUS REQUEST DONE
\$! WHILE A COMPILATION IS BEING DONE. IF THE COMPILER IS NOT IN CORE,
\$! THE SEQUENCE BEING COMPILED IS NOT KNOWN. THIS PATCH CAUSES CANDE TO
\$! SUPPRESS "AT SEQ GIBBERISH" IF THE SEQUENCE NUMBER IS NOT KNOWN.

\$! D.G. WILLMS, 1JUN76.
\$# PATCH NUMBER 403 FOR CANDE.XVI.0 CONTAINS 1 CARD
GOODOBJ:=FALSE; 62010350

\$: THIS PATCH UPDATES CHANGE TYPE.
\$: IF A USER CHANGES THE TYPE OF HIS WORKFILE, HE WILL NO LONGER HAVE
\$: A VALID OBJECT VERSION OF HIS WORKFILE.

\$:
\$: D.G.WILLMS, 11AUG76.

\$# PATCH NUMBER 404 FOR CANDE.XVI.0 CONTAINS 5 CARDS.
MATCH (VERBTABLE [A [S].[9:9]].[6:42], "TYPE ") 00201010
BEGIN WHICH=1; GO GETYPE END; 00201020
\$ VOIDT 67000000 65000000
CALL (NOTUSED); % 65 = WAS "TYPE" 90316000
"4TYPE ", 3"30004000000000076", % #62 ALSO 90386000

\$: THIS PATCH CHANGES CHANGE TYPE.
\$: VERB "TYPE" NOW GOES THROUGH "CHANGE",
\$: THIS IS DONE TO 1) REDUCE SIMILAR CODE,
\$: 2) ALLOW ABBREVIATIONS IN TYPE (AS PER MANUAL),
\$: PRIOR TO THIS CHANGE, CANDE WOULD BE UPSET AT THINGS LIKE TYPE : X.

\$:
\$: D.G.WILLMS, 11AUG76.

\$# PATCH NUMBER 405 FOR CANDE.XVI.0 CONTAINS 4 CARDS.
IF FILENAME=0 THEN GOERR ("NO FILE", 1); 52002650
~~END; % IF HARDCOPY ("PUNCH" VERB ASSUMES REMOVE OUTPUT) 520076100~~
~~IF NOT WORKFILE THEN IF HARDCOPY THEN ELSE 520026200~~
LABEL EXIT; 75000350
IF FILENAME=0 THEN GOERR ("NO FILE", 1) ELSE % CASE 0 75000550
EXIT; 75002550

\$: THIS PATCH CORRECTS DELETE, PUNCH AND UPDATE VERBS.
\$: PRIOR TO THIS PATCH, NONE OF THE VERBS CHECKED TO SEE IF THERE WAS A
\$: VALID WORKFILE.
\$: THIS CAUSED "DELETE" TO GENERATE A SOURCE FILE ON DISK,
\$: "PUNCH" TO FIRE UP PUNCH/CANDE WHICH WOULD GET DS-ED ON
\$: A NO FILE ERROR,
\$: "UPDATE" TO RESPOND WITH "#" EVEN THOUGH THERE WAS NO WORKFILE.

\$:
\$: D.G.WILLMS, 13AUG76. BROCK U. PATCH 405

\$# PATCH NUMBER 406 FOR CANDE.XVI.0 CONTAINS 3 CARDS.
GO EXIT; 58060000
% VOID A CARD 58063000
\$ VOIDT 58067000 58065000
\$: THIS PATCH CORRECTS LOADIT.
\$: PRIOR TO THIS PATCH, IF LOADIT FOUND THE FILES NOT OK (IE, FILESOK =
\$: FALSE) IT WOULD SET WANT=VSETUPFILES. UNFORTUNATELY IT DID NOT EXIT
\$: IN ORDER TO SET UP THE FILES. INSTEAD IT FELL DIRECTLY INTO THE
\$: DISPATCH OF LOAD/CANDE. AFTER LOAD/CANDE EOJ, LOADIT WOULD ISSUE
\$: A CANCELCKPT WHICH WOULD PRODUCE SERIOUS ERRORS (SEGMENT ZERO OVERWRITE, ETC).

\$:
\$: D.G.WILLMS, 16AUG76.

\$# PATCH NUMBER 407 FOR CANDE.XVI.0 CONTAINS 3 CARDS.
LABEL SUFFIX; 52007012
IF LIBTOG THEN GO SUFFIX ELSE %"RESEQ" IS FILE=NAME 52009850
SUFFIX; 52012650

\$: THIS PATCH UPDATES "COPYIT".
\$: PRIOR TO THIS PATCH, "RESEQ" COULD NOT BE USED AS A FILE=NAME.
\$: (IE. COPY SYMBOL/RESEQ WOULD RESULT IN COPYING SYMBOL/"USERCODE" WITH
\$: RESEQUENCING).

\$:
\$: D.G.WILLMS, 18AUG76.

\$# PATCH NUMBER 500 FOR CANDE.XVI.0 CONTAINS 4 CARDS.

fix count of cards
FILENAME defined on line 00017500
insert

fix
Modified by DR, UCSC 1/13/77

CALL CARD NUMBER

insert to BROCK U. patch 405 to CAUDE

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WORK[9] := 0 & UNITNUMBER[6:42:6];
IF HAVEINPUTFILE
THEN WORK[9] := WORK[9] & FILNAME[12:6:36]
ELSE
IF FILENAME = 0
THEN GOERR ("NO FILE", 1)
ELSE WORK[9] := WORK[9] & FILENAME[12:6:36]

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52025830
52025860

52025900
52025930

52025960
52025000

52026030

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IF DEVICE = TELETYPE OR DEVICE = TC500 THEN 01011450
IF DEVICE = TELETYPE OR DEVICE = TC500 THEN 36001650
IF DEVICE = TELETYPE OR DEVICE = TC500 THEN 36002550
IF DEVICE = TELETYPE OR DEVICE = TC500 THEN 36003450

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$! THIS PATCH WILL PREVENT CANDE FROM SENDING BLACKOUT CHARACTERS TO
$! VIDEO TERMINALS (IE, CONRAC OR BIDS). WHAT A WASTE OF TIME TO TRY TO
$! BLACKOUT A CRT.
$!

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\$! D.G. WILLMS, 26 FEB 76.

\$# PATCH NUMBER 501 FOR CANDE, XVI, 0 CONTAINS 63 CARDS.

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*****00054702
PROCEDURE FIXUSER (CNTR, A, EXIT, BUMPCNTR); VALUE BUMPCNTR; 00054704
  INTEGER CNTR; ARRAY A [0]; 00054706
  LABEL EXIT; BOOLEAN BUMPCNTR; 00054708
  BEGIN 00054710
  REAL WORD; 00054712
  INTEGER I, IBY6, LENGTH; 00054714
  INTEGER STREAM PROCEDURE COUNTZERO (A); VALUE A; 00054716
  BEGIN 00054718
  SII=LOC A; TALLY:=0; 00054720
  B (IF SC EQL "0" THEN BEGIN UPS; UPT END ELSE JUMP OUT); 00054722
  COUNTZERO:=TALLY; 00054724
  END OF COUNTZERO; 00054726
  IF (WORD:=A [INC (SREG)]).[1:5] EQL 0 THEN 00054728
  BEGIN 00054730
  WORD:=DECCONV (WORD); 00054732
  IF LENGTH:=A [INC (SREG)].[3:3] EQL 0 THEN 00054734
  GOERR (WORD, 8); 00054736
  IF I:=8-COUNTZERO (WORD) > 6 THEN 00054738
  GOERR (WORD, 8); 00054740
  IF I EQL 0 THEN I:=1; 00054741
  IF LENGTH:=I+LENGTH > 7 THEN 00054742
  GOERR (WORD, 8); 00054744
  IBY6:=I * 6; 00054746
  A [SREG]:=0 & WORD [6:48-IBY6:IBY6] & 00054748
  A [SREG] [6+IBY6:6:(7-I)*6] & LENGTH [3:45:3]; 00054750
  DECR (SREG); 00054752
  IF BUMPCNTR THEN 00054754
  INC (CNTR); 00054756
  END 00054758
  ELSE 00054760
  DECR (SREG); 00054762
  END OF FIXUSER; 00054764
  ELSE IF WORD EQL "/" THEN 42002700
  IF SREG + 2 LEQ MAXSREG THEN FIXUSER(I, A, EXIT, FALSE) ELSE 42002710
  ELSE 42002780
  GOERR (WORD, 8); 42002785
  LABEL NUMUSER; 52007015
NUMUSER: 52012305
  IF INPCOUNT + 2 LEQ NPARAMS THEN 52012310
  FIXUSER (INPCOUNT, A, EXIT, TRUE); 52012320
  GO TO NUMUSER; 52015950
LABEL NUMUSER; 56000450
NUMUSER: 56004700
  IF LIB := (CHAR := WORD.CF) = "/" THEN 56004705
  IF I + 2 LEQ PC THEN FIXUSER (I, A, EXIT, TRUE) ELSE 56004710
  ELSE 56004790

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MATCH(WORD,"LIBRARY") BEGIN LIB:=TRUE;GO NUMUSER END ELSE56007650
LABEL LIBNAME; 57041500
LIBNAME; 57089500
IF SREG + 2 LEQ MAXSREG THEN FIXUSER (T,A,EXIT,FALSE); 57091100
GO TO LIBNAME 57113000
$ VOIDT 57117000 57114000
IF LIB # WORD.CF = "/" THEN 72003805
IF TOIT THEN GOERR ("NO USER",39) ELSE 72003810
IF I + 2 LEQ PC THEN FIXUSER (I,A,EXIT,TRUE) ELSE 72003820
ELSE 72003900
GOERR (WORD,8); 72003905
IF HAVEUSER THEN GO ERR ELSE 74009000
BEGIN 74009005
FROM:=TRUE; 74009010
IF I + 2 LEQ PC THEN FIXUSER (I,A,EXIT,TRUE); 74009020
END 74009095
$: THIS PATCH ALLOWS USERCODES STARTING WITH DIGITS IN ALL THE
$: CANDE VERBS WHICH ALLOW USERCODES.
$:
$: D.G. WILLMS,26FEB76.
$: PATCH REWRITTEN 26MAY76 = D.G. WILLMS.
$# PATCH NUMBER 502 FOR CANDE.XVI,0 CONTAINS 16 CARDS.
SPECNAME = A[BASE+9],[17:01]#, % NO "0" IN MFID 57019500
BOOLEAN OBJECTTOGGLE; 57043500
ELSE MATCH (WORD,"OBJECT ") 57092100
BEGIN 57092200
MATCH (VERBWORD,"EXECUTE") 57092300
IF NAMEWORD [0] # 0 THEN ERROR (8) %MFID ALREADY GIVEN 57092400
ELSE OBJECTTOGGLE := TRUE 57092500
ELSE ERROR (8) 57092600
END 57092700
IF NOT OBJECTTOGGLE THEN 57106500
IF OBJECTTOGGLE THEN 57126100
IF NAMEWORD [0] = 0 THEN GOERR ("INCOMPL",6) 57126200
ELSE SPECNAME := 1; 57126300
FIND (LL&IAM [33:41:7],0,IF SPECNAME = 1 THEN NAMEWORD [0] ELSE 57202000
NAMEWORD [0],[6:36],NAMEWORD [1],USERCODE); 57202500
RUN1 := IF SPECNAME = 1 THEN NAMEWORD [0] ELSE NAMEWORD [0],[6:36]; 57228000
$: THIS PATCH EXTENDS THE EXECUTE VERB SYNTAX. IF THE WORD "OBJECT"
$: APPEARS BETWEEN EXECUTE AND MFID, THEN THE MFID WILL NOT BE FUDGED
$: (IE. EXECUTED AS IS, NO "0" INSERTED IN MFID), THUS MFID CAN BE 7
$: CHARACTERS IN LENGTH
$:
$: D.G. WILLMS, 26FEB76.
$# PATCH NUMBER 503 FOR CANDE.XVI,0 CONTAINS 32 CARDS.
DEFINE SBASE = 51#; % PROCEDURE STACK BASE 00015900
DEFINE USERNAME1 = A[49] #; %FIRST 7 CHRS OF USER NAME 00019640
DEFINE USERNAME2 = A[50] #; %LAST 8 CHRS OF USER NAME 00019642
*****00053000
STREAM PROCEDURE BLANK2 (A,N); VALUE N; 00053100
BEGIN DI:=A; N(DS:=LIT " "); END; 00053200
TWXOUT(LL,WORK[0],24,CRLF); 01008500
IF DEVICE = TELETYPE OR DEVICE = TC500 THEN BLACKOUT; 01008550
QUICKBYEBIT:=1; % QUICKBYE IF NOT LOGGED IN 01010100
MOVE (2,WORDS,WORK[4],USERNAME1); % SAVE NAME 01014220
MOVE (2,WORDS,USERNAME1,WORK[1]); BLANK2(WORK[1],1); 37001700
WORK[3]:=DECCONV(LL); WORK[3]:=WORK[3]& "LINE " [6:18:30];37001710

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BLANK(WORK[3]);
TWXOUT(LL,WORK[0],32,CRLF);
MOVE (2,WORDS,A [BASE],USERNAME1);
STREAM PROCEDURE FRM (F,T,UN,LL); VALUE LL;
SI I= UN; UPS;
DS I= 15 CHR;
DS I= 14 WDS;
STREAM PROCEDURE BZY (W,UN,LL); VALUE LL;
SI I= UN;
DS I= 15 CHR;
BZY (WORK [20],USERNAME1,LL);
TWXOUT (T,WORK [20],24,1);
FRM (L,WORK,USERNAME1,LL);
MOVE (2,WORDS,USERNAME1,WORK [1]); BLANK2(WORK[1],1);
TWXOUT(LL,WORK[0],24,CRLF);
STREAM PROCEDURE SETNAME (PLACE);
BEGIN
DI I= PLACE; DS I= 16 LIT "OSITE OPERATOR ";
END OF SETNAME;
SETNAME (USERNAME1);
$: THIS PATCH REMOVES THE SENDER USERCODE FROM THE "SS" MESSAGE. ALSO
$: THE USERCODE WILL NOT BE RETURNED TO THE SENDER ON A "USER BUSY" RESPONSE.
$: THE USERCODE IS ALSO SUPPRESSED IN THE GOODBYE MESSAGES AND THE TIME MESSAGES
$: IN EACH CASE, THE USER'S NAME WILL BE INSERTED (USER NAME
$: STORED FROM USERS FILE WHEN USER LOGS IN).
$: CANDE WILL ALSO "BLACKOUT" THE LINE WHEN REQUESTING A USER CODE. THIS
$: IS DONE SINCE THE REMOTE USERCODES ARE ALSO VALID FOR THE BATCH RUNS
$: AND THE DCMCP.
$:
$: PROCEDURE BLANK2 ADDED TO CORRECT RESTRICTEDUSER PATCH (#509).
$: D.G. WILLMS, 21APR76.
$# PATCH NUMBER 504 FOR CANDE.XVI.0 CONTAINS 7 CARDS.
DEFINE PRIVUCODE=LINE [0,UCLOC] #;
FIND (LL&IAM [33:41:7],0,"NEWS ", "CANDE ",USERCODE);
FIND (LL&IAM [33:41:7],0,A [BASE+1],A [BASE+2],PRIVUCODE);
WORD:=WORD.[6:42];
MATCH (WORD,"SPO ") BEGIN LL:=0; SPOUT (LCW,A [*],T); GO EXIT END;
MATCH (WORD,LINE [LL,UCLOC])
USERCODE:=TIME (-1); % GET USERCODE
$: THIS PATCH CAUSES CANDE TO USE THE PRIV. USERCODE INSTEAD OF "SITE".
$: THIS INSTALLATION USES THE DATA CUMM FACILITY OF THE FIRST USER IN REMOTE/
$: USERS IS THE PRIV. USER.
$: THIS PATCH ALSO SEARCHES NEWS/CANDE USING THE USERCODE OF THE USER THAT IS
$: BEING LOGGED IN. THIS WILL ALLOW FOR SELECTIVE NEWS/CANDE MESSAGES.
$: WITHOUT THIS PATCH CANDE MAY ABORT ON "SSFILE" COMMANDS AND NEWS/CANDE
$: MAY NOT BE PICKED UP.
$: LINE 0 USES THE PRIV USER AS ITS USERCODE INSTEAD OF "SPO".
$: CODE ADDED 6JUL76 TO ALLOW "TO SPO" MESSAGES.
$:
$: D.G. WILLMS, 9MAR76.
$# PATCH NUMBER 505 FOR CANDE.XVI.0 CONTAINS 11 CARDS.
LABEL SPECCANDE;
WORK [0],[2:1] I= 1; % MARK AS CANDE JOB.
MATCH(RUN1,"FIND ") GO SPECCANDE ELSE
MATCH(RUN1,"GUARD ") BEGIN WORK[0],[2:1]:=0; GO SPECCANDE END ELSE
$ VOIDT
SPECCANDE:

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37001720
37001800
39003150
50000400
50000600
50000900
50001500
50002100
50002400
50002600
50003700
50003800
50005100
54001700
54001800
90367702
90367706
90367708
90367710
90367712
00015750
01018900
42003000
50006910
50006920
50007200
90367740
27000450
27002005
27002010
27002020
27003000
27003750

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IF CONCISE THEN ELSE 27004600
MATCH (RUN2,"CANDE ") ELSE 27004603
MATCH (RUN2,"DISK ") ELSE 27004606
RUN2:="CANDE "; 67001100
RUN2:="CANDE "; 76030300

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$: THIS PATCH CHANGES THE NAME OF FIND/DISK AND GUARD/DISK TO FIND/CANDE
$: AND GUARD/CANDE RESPECTIVELY.
$:

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\$. D.G. WILLMS, 24MAR76.

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$# PATCH NUMBER 506 FOR CANDE.XVI.0 CONTAINS 11 CARDS.
X.....74007010
ALPHA PROCEDURE GETTYPE (FILETYPE); VALUE FILETYPE; INTEGER FILETYPE; 74007020
BEGIN 74007030
IF FILETYPE GTR NUMOFTYPES THEN FILETYPE:=0; 74007040
GETTYPE:=IF BOOLEAN (WORK [4],[10:1]) THEN "OBJ( ) " & 74007050
TYPETABLE [FILETYPE] [30:6:6] ELSE TYPETABLE [FILETYPE]; 74007060
END OF GETTYPE; 74007070
$ VOIDT 74019200
PRINTIT (A [BASE + 1],GETTYPE (WORK [4],[36:6])); 74019300
$ VOIDT 74020800 74020600
PRINTIT (A [BASE + 1],GETTYPE (WORK [4],[36:6])); 74020800
$: THIS PATCH WILL CAUSE CANDE TO GET THE FILETYPE FROM THE DIRECTORY WHEN
$: IT HANDLES THE "LIST FILES FILE-NAME" REQUEST. PRIOR TO THIS PATCH CANDE
$: WOULD DETERMINE THE FILE TYPE (IE. SOURCE OR OBJECT) FROM THE NAME.
$: A ZERO INDICATED OBJECT WHILE A NON-ZERO MEANT SOURCE. THIS CAUSED THE TYPE
$: TO BE INCORRECT FOR FUNNY FILES (IE. NON-TSS).
$: NOTE - CANDE HANDLES A LIST FILES REQUEST IF ONE FILE-NAME IS REQUESTED
$: INSTEAD OF FIRING UP LFILES/CANDE.
$:

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\$. D.G. WILLMS, 31MAR76.

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$# PATCH NUMBER 507 FOR CANDE.XVI.0 CONTAINS 1 CARD.
DEFINE MAXLINES = 14 #; %NO. OF LOGICAL LINES 00007900
$: THIS PATCH REDUCES THE NUMBER OF LOGICAL LINES CANDE CAN HANDLE.
$:

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\$. D.G. WILLMS, 5APR76.

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$# PATCH NUMBER 508 FOR CANDE.XVI.0 CONTAINS 2 CARDS.
IF S AND D THEN ELSE 61001750
IF X.[42:6] EQL " " THEN 61002950
$: THIS PATCH WILL ALLOW A USER TO REMOVE FILE NAMES 7 CHARACTERS IN LENGTH.
$:

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\$. D.G. WILLMS, 5APR76.

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$# PATCH NUMBER 509 FOR CANDE.XVI.0 CONTAINS 54 CARDS.
DEFINE LLWORDS = 130 #; % WDS PER LOGICAL LINE 00008100
DEFINE SBASE = 52 #; % PROCEDURE STACK BASE 00015900
DEFINE WRKPST = A[51],[02:23] #, % OBJECT WORKFILE 00019644
DEFINE WRKIQT = A[51],[23:23] #; % TIME LIMITS 00019646
DEFINE RESTRICTEDUSER = A[49],[5:1] #, 00019648
RESTRICTED = BOOLEAN (RESTRICTEDUSER) #; 00019650
DEFINE SMALLJOBLIMIT = 3600#; % 1 MINUTE 00025450
COM15(LL&13[33:41:7],2,USERCODE,CHARGE,0,IF RESTRICTED THEN 00039300
ENTIER (GRACEPERIOD * 216000) ELSE 432000); 00039310
RESTRICTEDUSER:=IF (T:=USERCODE,[6:6]) GEQ 1 AND T LEQ 9 THEN 001014230
ELSE 1) 01014240
*****X07001410
BOOLEAN STREAM PROCEDURE FLAGBIT (W); 07001420
*****X07001430
BEGIN 07001440

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SI:=W; IF SB THEN TALLY:=1 ELSE TALLY:=0; FLAGBIT:=TALLY; 07001450
END OF FLAGBIT; 07001460
$ VOIDT 07002410 07002100
WORK [16]:=IF PROCESSLIMIT GTR 0 THEN PROCESSLIMIT ELSE IF RESTRICTED 27000900
THEN 1500 ELSE 7200; 27000950
WORK [17]:=IF IOLIMIT GTR 0 THEN IOLIMIT ELSE IF RESTRICTED THEN 2100 27001000
ELSE 10800; 27001050
WORK [16] := PROCESSLIMIT; 32001700
WORK [17] := IOLIMIT; 32001750
WORK[21] := IF STACKSIZE GTR 0 THEN STACKSIZE 32002000
ELSE 512; % STACK 32002010
WORK[16]:=IF RESTRICTED THEN 1500 ELSE IF PROCESSLIMIT LEQ 32003110
7200 THEN 7200 ELSE PROCESSLIMIT; 32003120
WORK[17]:=IF RESTRICTED THEN 2100 ELSE IF IOLIMIT LEQ 32003130
10800 THEN 10800 ELSE IOLIMIT; 32003140
A [BASE].[5:1]:=RESTRICTEDUSER; 39003125
IF PROCESSWORD EQL 0 THEN PROCESSWORD := 600; % 10 SECS. 57177100
IF IOWORD EQL 0 THEN IOWORD := 1800; % 30 SECS. 57177200
WRKPST := PROCESSLIMIT; 57178100
WRKIOT := IOLIMIT; 57178200
IF PROCESSWORD EQL 0 THEN PROCESSWORD := WRKPST; 57196100
IF IOWORD EQL 0 THEN IOWORD := WRKIOT; 57196200
IF PROCESSWORD EQL 0 % GET PROGRAM SEGMENT ZERO 57219100
OR IOWORD EQL 0 THEN % TO CHECK TIME LIMITS 57219200
BEGIN 57219300
LLDISKREAD := EVENTS [4]; 57219400
WANT := VDISKREAD; 57219500
DOING := 4; 57219600
GO TO EXIT; 57219700
END; 57219800
IF RESTRICTED THEN 57227400
IF PROCESSWORD + IOWORD GTR SMALLJOBLIMIT THEN GOERR ("TOO BIG",69); 57227500
BEGIN % CASE 4 - SEGMENT ZERO OF CODE FILE IN CORE 57253100
IF PROCESSWORD LEQ 0 THEN PROCESSWORD:=IF FLAGBIT (WORK [16]) THEN 57253200
600 ELSE WORK [16]; 57253250
IF IOWORD LEQ 0 THEN IOWORD:=IF FLAGBIT (WORK [17]) THEN 1800 57253300
ELSE WORK [17]; 57253350
GO TO RUNN; 57253500
END CASE 4; 57253600
$: THIS PATCH CHANGES THE WAY CANDE HANDLES TIME LIMITS.
$: COMPILES SUBMITTED BY EXTERNAL USERS HAVE NON-OVERRIDEABLE LIMITS OF
$: 25 SECS, PST AND 35 SECS. IOT. INTERNAL USERS ARE 2 MINS, PST AND
$: 3 MINS, IOT. TIME LIMITS SUPPLIED AT COMPILE TIME BECOME THE EXECUTION
$: TIME DEFAULTS. IF NO TIME LIMITS ARE GIVEN AT COMPILE TIME, 10 SECONDS PST
$: AND 30 SECONDS IOT ARE USED. EXTERNAL USERS ARE NOT ALLOWED TO
$: EXECUTE ANY JOB WHOSE TIME LIMITS (PST + IOT) EXCEED THE SMALL JOB LIMIT
$: (CURRENTLY 1 MINUTE).
$: EXTERNAL USERS ARE ALLOWED AN IDLE TIME EQUAL TO THE GRACEPERIOD BEFORE
$: THEY ARE THROWN OFF BY THE TSSMCP. INTERNAL USERS ARE ALLOWED 2 HOURS.
$: FLAGBIT PROCEDURE MOVED (NOW GLOBAL) SO THAT EXECUTE PROCEDURE CAN
$:
$: D.G. WILLMS, 12APR76.
$: CHECK FLAGBITS IN SEGMENT ZERO OF CODEFILE. 6JUL76.
$# PATCH NUMBER 510 FOR CANDE.XVI.0 CONTAINS 1 CARD.
MATCH(RUN1,"LIST ") CHUNKS:=6 ELSE 27002600
$: THIS PATCH CHANGES THE CHUNK SIZE FOR LIST/CANDE TO 6 FROM 5.
$: THIS SHOULD STOP THE EXPANDED (NO MEM) CONDITIONS.

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S1
S1 D.G. WILLMS, 7APR76.
S# PATCH NUMBER 511 FOR CANDE.XVI.0 CONTAINS 4 CARDS.
    BEGIN      WC := A [SREG] - 1;
S VOIDT
    X.[1:5] := 0; % CLEAR "+" SIGN
    IF X.[6:6] EQL 0 THEN X.[6:6] := "+";
S1 THIS PATCH CHANGES THE RESPONSE TO REMOVES OF NON-EXISTENT FILES,
S1 AN ERROR MESSAGE IS SPOUTED EVEN IF THE FILE IS AN OBJECT FILE
S1 (CANDE CURRENTLY SUPPRESSES THESE), THE FIRST CHARACTER OF AN OBJECT
S1 FILE IS CHANGES TO A "+", AND THE "+" SIGN IS CLEARED FROM THE
S1 FIRST CHARACTERS POSITION.
S1
S1 D.G. WILLMS, 8APR76

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61000618
61000650
61000660
61000662

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S# PATCH NUMBER 513 FOR CANDE.XVI.0 CONTAINS 1 CARD.
    GRACEPERIOD = 0.0833 #, % 5 MINUTES
S1 THIS PATCH CHANGES THE GRACE PERIOD TO 5 MINUTES FROM 15 MINUTES.
S1
S1 D.G. WILLMS, 21APR76.

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00019622

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S# PATCH NUMBER 514 FOR CANDE.XVI.0 CONTAINS 14 CARDS.
COMPNAME      = A[BASE+10]#; % SPECIAL COMPILER
SAVESIZE      = 11#; % WORDS USED ABOVE
ELSE MATCH (WORD,"SPECIAL") IF TYPEWORD EQL 0 THEN
    TYPEWORD:=99 ELSE ERROR (8)
    IF TYPEWORD EQL 99 THEN IF COMPNAME EQL 0 THEN
        COMPNAME := WORD ELSE ERROR (8) ELSE
    IF TYPEWORD EQL 99 THEN
        IF COMPNAME EQL 0 THEN GOERR ("INCUMPL",6);
CHKTYPE: IF TYPEWORD NEQ 99 THEN
    BEGIN
        IF NOT BOOLEAN ((T:=TYPETABLE [TYPEWORD]).[1:1]) THEN
            END;
        RUN2:=IF COMPNAME EQL 0 THEN TYPETABLE [TYPEWORD].[6:42] ELSE
            COMPNAME;
S1 THIS PATCH ALLOWS SPECIAL COMPILERS UNDER CANDE, THE SYNTAX IS
S1 "SPECIAL" COMPILER=NAME. IE. C SPECIAL ALGOL16 WITH LISTING.
S1
S1 D.G. WILLMS, 20APR76.

```

```

57020500
57021000
57092800
57092900
57103100
57103200
57126400
57126500
57150000
57150100
57150200
57151300
57177000
57177050

```

```

S# PATCH NUMBER 515 FOR CANDE.XVI.0 CONTAINS 4 CARDS.
DS:=52LIT"YOUR SCHEDULED TIME IS ALMOST UP. PLEASE LOG OFF AS ";
IF NOT TIMEOK (ENTIER ((TIMENOW:=TIME(1)/216000)+GRACEPERIOD),
    TIMELIMITS) THEN
    BEGIN PLSLOGOFF (WORK); TWXOUT (LL,WORK [0],69,2);
S1 THIS PATCH CHANGES THE WAY USERS ARE TURFED OFF WHEN THEIR SCHEDULED
S1 TIME IS UP. INSTEAD OF WARNING THEM AT THE EXPIRY TIME AND THEN GIVING
S1 THEM A GRACE PERIOD, THEY ARE WARNED BEFORE THEIR EXPIRY TIME AND
S1 THROWN OFF AT THE SCHEDULED TIME.
S1
S1 D.G. WILLMS, 13APR76.

```

```

90091500
90093200
90093250
90093400

```

```

S# PATCH NUMBER 516 FOR CANDE.XVI.0 CONTAINS 85 CARDS,
DEFINE SECURE (SECURE1,SECURE2,SECURE3,SECURE4) =
    COM157 (LL&14 [33:41:7],7,SECURE1,SECURE2,USERCODE,SECURE3,
        SECURE4) #;
BOOLEAN SLASH,NAM3,NAM4; INTEGER FORGETSET;
LABEL CHECKUSER, SELECTIT;
    A [BASE+1]:=SOURCEFILE; % DEFAULT FILE NAME
    IF A [I],[3:3] = 0 THEN % NOT A LETTER STRING

```

```

00041800
00041900
00042000
68000550
68000650
68001400
68002600

```

```

IF A [I] = "/" THEN
  IF SLASH THEN GO ERR1
  ELSE IF WTH THEN IF NAM2 THEN
    BEGIN
      SLASH:=TRUE;
      IF I + 2 LEQ IMAX THEN
        BEGIN SREG:=I;
        FIXUSER(I,A,EXIT,TRUE) END;
      END
      ELSE GO ERR1
    ELSE IF NAM1 THEN GO CHECKUSER
      ELSE GO ERR1
  ELSE
    GO ERR1
ELSE
  BEGIN
    IF SRC THEN GO TO ERR1;
    IF WTH
    OR OBJ THEN BEGIN FORGETSET:=2; GO SELECTIT END;
    SRC:=TRUE;
    IF OBJ THEN GO TO ERR1;
    IF WTH
    OR SRC THEN BEGIN FORGETSET:=1; GO SELECTIT END;
    OBJ:=TRUE;
    IF SLASH THEN IF NAM4 THEN GO SELECTIT
      ELSE BEGIN A [BASE+7]:=WORD;
        SLASH:=FALSE;
        NAM4:=TRUE END
    ELSE
      IF NAM2 THEN GO SELECTIT ELSE BEGIN
        END
        IF OBJ THEN
          IF WORD.[42:6] NEQ " " THEN
            GOERR (WORD,42);
          IF SLASH THEN IF NAM3 THEN GO SELECTIT
            ELSE BEGIN A [BASE+6]:=WORD;
              SLASH:=FALSE;
              NAM3:=TRUE END
          ELSE BEGIN
            END;
          IF SLASH OR (NOT NAM1) OR (WTH AND NOT NAM2) THEN
            GOERR ("INCPLT",6);
          A [BASE+5]:=REAL (SRC) & REAL (OBJ)[46:47:1] & FORGETSET[44:46:2];
          IF NOT NAM3 THEN A [BASE+6]:=USERCODE;
          $ VOIDT
          A [BASE+3]:= - A [BASE+2];
          A [BASE+4]:=IF NAM4 THEN A [BASE+7] ELSE USERCODE;
          FIND (LL&IAM [33:7],0,A [BASE+2],A [BASE+4],USERCODE);
          TEMP:=7;
          IF NOT OBJ THEN SECURE (A[BASE+1],A[BASE+6],A[BASE+3],A[BASE+4]);
          IF A [BASE+1].[42:6] EQL " " THEN
            IF NOT SRC THEN SECURE (A [BASE+1].[6:36],A [BASE+6],A [BASE+3],
              A [BASE+4]); % OBJECT
          TEMP:=6;

```

```

68002610
68002620
68002621
68002623
68002625
68002627
68002628
68002629
68002630
68002635
68002640
68002650
68002660
68002670
68002680
68002685
68002690
68003000
68003050
68003100
68003150
68003500
68003550
68003600
68003650
68004510
68004520
68004525
68004530
68004540
68004600
68004850
68005110
68005120
68005130
68005511
68005513
68005514
68005515
68005517
68005518
68005535
68005540
68005800
68005850
68005950
68005960
68006200
68006210
68006220
68006300
68006400
68007000
68007050
68007100
68007150
68007200

```

```

PARAM:=IF SRC OR OBJ OR A [BASE+1].[42:6] NEQ " " THEN 1 ELSE 2; 68007300
A [BASE+5].[42:2]:=PARAM; 68007350
IF EVENTS [1] LSS 0 THEN % NO GUARD FILE 68008200
WORD:=A [BASE+2]; 68008400
WORD:=A [BASE+2]; 68009000
$ VOIDT 68009800 68009600
WORD:=A [BASE+5].[42:2] + 5; 68010110
FOR I:=6 STEP 1 UNTIL WORD DO 68010120
IF A [BASE+I] NEQ 7 THEN % SECURITY MAINTENANCE IGNORED 68010200
LITOUT ("ERR: ",NOCRLF); 68010400
IF A [BASE+I].[6:6] EQL 0 THEN 68010510
BEGIN 68010520
A [BASE+I].[6:6]:="*"; 68010530
IF A [BASE+I].[12:6] LEQ 9 THEN % IE "01S010" 68010540
A [BASE+I].[12:36]:=FILENAME.[6:36]; 68010550
END; 68010560
LITOUT (= A [BASE+I],CRLF); 68010600
IF B (FORGETSET:=A [BASE+5].[44:2]) THEN SRC:=FALSE 68010842
ELSE SRC:=B (A [BASE+5]); 68010844
IF FORGETSET = 2 THEN OBJ:=FALSE 68010846
ELSE OBJ:=B (A [BASE+5].[46:1]); 68010848
$: THIS PATCH UPDATES THE SECURITY COMMANDS "LOCK", "PUBLIC", AND "UNLOCK".
$:
$: 1. <SECURITY COMMAND> NOT FOLLOWED BY A FILE NAME WILL NOW CORRECTLY
$: ACCESS THE WORK FILE. PRIOR TO THIS PATCH, CANDE WOULD TRY TO
$: ACCESS THE WORK FILE USING THE USER'S NAME (IE, FILENM) INSTEAD OF
$: THE SYSTEM NAME (IE. 1S###). THE RESULT WAS EITHER AN ERROR IF THE
$: FILE WAS NOT IN THE USER'S LIBRARY, OR CANDE WOULD UPDATE A LIBRARY FILE
$: OF THAT NAME INSTEAD OF THE WORK FILE.
$:
$: 2. THE "+" HAS BEEN REMOVED FROM THE FILE NAME IN THE ERROR MESSAGES.
$:
$: 3. ERROR MESSAGES FOR OBJECT FILES HAVE THE FIRST "0" REPLACED WITH AN "*",
$:
$: 4. CANDE WILL NOW REPORT AN ERROR IF THE OBJECT FILE IS NOT IN THE DIRECTORY
$: ON A <SECURITY COMMAND> <FILE NAME> INPUT. PRIOR TO THIS CHANGE, CANDE
$: WOULD ONLY REPORT ERRORS FOR SOURCE FILES (UNLESS <SECURITY COMMAND>
$: "OBJECT" WAS INPUT).
$:
$: 5. USERS ARE NOW ALLOWED TO SPECIFY A SUFFIX ON BOTH THE FILE NAME AND
$: GUARD FILE NAME, IF IT FOLLOWS A "/".
$: EG. LOCK A WITH C/D
$: LOCK A/B
$: LOCK A/B WITH C
$: LOCK A/B WITH C/D
$: PUBLIC A/B
$: UNLOCK A/B
$:
$: **WARNING** - REQUIRES PATCH # 501 FOR "FIXUSER"
$: **NOTE** - MCP DOES NOT CHECK SECURITY - NEEDS MCP PATCH # 563.
$:
$: D.G.WILLMS - 25MAY76.
$# PATCH NUMBER 517 FOR CANDE.XVI.0 CONTAINS 76 CARDS,
BOOLEAN OBJ,SLASH; INTEGER I,PC; REAL WORD;
A [BASE+2]:=USERCODE;
ELSE
BEGIN

```

```

64000550
64005950
64006010
64006020

```

```

SLASH:=OBJ:=BOOLEAN (A [BASE+2]:=A [BASE+1]:=I:=0);
PC:=A [BASE];
WHILE I LSS PC DO
  BEGIN
  INC (I);
  WURD:=A [INC (SREG)];
  IF WORD,[3:3] GTR 0 THEN % LETTER STRING
  BEGIN
  WORD:=WORD,[6:42];
  MATCH (WORD,"OBJECT ")
  OBJ:=TRUE
  ELSE
  IF A [BASE+1] EQL 0 THEN
  A [BASE+1]:=WORD
  ELSE
  IF A [BASE+2] EQL 0 THEN
  IF SLASH THEN
  BEGIN
  A [BASE+2]:=WORD;
  SLASH:=FALSE;
  END
  ELSE
  GOERR (WORD,8)
  ELSE
  GOERR (WORD,8)
  END
  ELSE
  IF WORD,[1:2] EQL 1 THEN % SPECIAL CHARACTER
  IF WORD EQL "/" THEN
  IF SLASH THEN
  GOERR (WORD,8)
  ELSE
  BEGIN
  SLASH:=TRUE;
  IF I + 2 LEQ PC THEN
  FIXUSER (I,A,EXIT,TRUE);
  END
  ELSE
  GOERR (WORD,8)
  ELSE
  BEGIN
  WORD:=DECCONV (WORD);
  GOERR (WORD,8);
  END;
  END;
  IF SLASH THEN GOERR ("INCMPLT",8);
  IF OBJ THEN
  IF A [BASE+1] EQL 0 THEN
  IF GOODOBJ THEN
  BEGIN
  A [BASE+1]:=SOURCEFILE,[6:36];
  A [BASE]:=0;
  END
  ELSE
  GOERR ("NO FILE",1)
  ELSE
  A [BASE+1]:=A [BASE+1],[6:36];

```

```

64006030
64006040
64006050
64006060
64006070
64006080
64006090
64006100
64006110
64006120
64006130
64006140
64006150
64006160
64006170
64006180
64006190
64006200
64006210
64006220
64006230
64006240
64006250
64006260
64006270
64006280
64006290
64006300
64006310
64006320
64006330
64006340
64006350
64006360
64006370
64006380
64006390
64006400
64006410
64006420
64006430
64006440
64006450
64006460
64006470
64006480
64006490
64006500
64006510
64006520
64006530
64006540
64006550
64006560
64006570
64006580
64006590

```

IF A [BASE+2] EQL 0 THEN	64006600
A [BASE+2]:=USERCODE;	64006610
END;	64006620
GO TO CASE1;	64006630
END; % CASE 0	64006640
A [BASE+2]:=USERCODE;	64006950
FIND (LL&IAM [33:41:7],0,A [BASE+1],A [BASE+2],USERCODE);	64007100
IF A [BASE+1],[6:6] EQL 0 THEN A [BASE+1],[6:6]:="*";	64007650
IF EVENTS [1] LEQ 0 THEN	64007700
BEGIN	64007710
GOERR (A [BASE+1],2);	64007730
END;	64007740
MSG (L,IF A [BASE+1],[6:6] EQL "*" THEN 0 & "*" [6:42:6] &	64008900
FILENAME [12:6:36] ELSE FILENAME,TRUE,TYPETABLE [FILETYPE],	64008950
WORK [7]+1,DATE,TM,WORK [3],[2:10])	64009000
\$: THIS PATCH UPDATES THE WHATS COMMAND.	
\$:	
\$: A USER CAN NOW SPECIFY A FID IN THE WHATS COMMAND.	
\$: EG. WHATS A/B.	
\$:	
\$: A USER CAN ALSO NOW ACCESS HIS OBJECT WORK FILE VIA WHATS OBJECT.	
\$:	
\$: **WARNING** - REQUIRES PATCH # 501 FOR FIXUSER.	
\$: D.G. WILLMS, 31MAY76.	
\$# PATCH NUMBER 518 FOR CANDE.XVI.0 CONTAINS 92 CARDS.	
CHANGEFILE4,CHANGEFILE5)=CC15 (CHANGEFILE1,5,CHANGEFILE2,	00041200
CHANGEFILE3,CHANGEFILE4,CHANGEFILE5,USERCODE) #;	00041300
INTEGER L;	00200420
IF A [INC(SREG)] EQL "/" THEN	00205400
BEGIN	00205405
IF L:=T-(SREG=S) EQL 0 THEN GO TO BADPARAM;	00205410
IF L GEQ 2 THEN FIXUSER (S,A,EXIT,FALSE);	00205415
IF A [INC(SREG)],[3:3] GTR 0 THEN	00205420
A [BASE+5]:=A [SREG],[6:42]	00205425
ELSE GO TO BADPARAM;	00205430
INC (SREG);	00205435
END	00205440
ELSE	00205445
A [BASE+5]:=USERCODE;	00205450
MATCH (A [SREG],[6:42],"TYPE ") GO GETYPE;	00205455
A [BASE+1]:=A [SREG],[6:42];	00206300
IF A [INC(SREG)] EQL "/" THEN	00206305
BEGIN	00206310
IF L:=T-(SREG=S) EQL 0 THEN GO TO BADPARAM;	00206315
IF L GEQ 2 THEN FIXUSER (S,A,EXIT,FALSE);	00206320
IF A [INC(SREG)],[3:3] GTR 0 THEN	00206325
A [BASE+6]:=A [SREG],[6:42]	00206330
ELSE GO TO BADPARAM;	00206335
END	00206340
ELSE	00206345
BEGIN DECR (SREG);	00206347
A [BASE+6]:=USERCODE; END;	00206350
TEMP:=6;	62000500
% VOID A CARD	62001800
FIND (LL&IAM [33:41:7],0,MAKEFN ("IS",LL),USERCODE,USERCODE);	62001900
FIND (LL&IAM [33:41:7],0,A [BASE],A [BASE+5],USERCODE);	62002500
FIND (LL&IAM [33:41:7],0,A [BASE+1],A [BASE+6],USERCODE);	62003000

IF A [BASE+1] = 2 THEN IF A [BASE],[42:6] EQL " " THEN	62004563
A [BASE]:=A [BASE],[6:36] ELSE	62004564
GOERR (A [BASE],42);	62004565
FIND (LL&IAM [33:41:7],0,A [BASE],A [BASE+5],USERCODE);	62004566
T:=IF SCHEDULELINE AND BOOLEAN (SCHEDNAME,[1:1]) THEN 0 ELSE 3;	62004900
DOING:=2;	62005200
IF A [BASE+5] EQL USERCODE THEN	62005680
T:=LL & VMCPMSG [33:41:7];	62007100
CHANGEFILE (T,A [BASE+1],A [BASE+5],A [BASE+2],A [BASE+6]);	62007200
IF A [BASE],[42:6] EQL " " THEN	62007210
BEGIN	62007220
PARAM:=LIBMSGCTR:=2;	62007230
CHANGEFILE (T,A [BASE+3],A [BASE+5],A [BASE+4],A [BASE+6]);	62007300
END	62007400
ELSE	62007410
PARAM:=LIBMSGCTR:=1;	62007420
% VOID A CARD	62007500
\$ VOIDT	62007800
IF A [BASE+6] NEQ 7 THEN GOERR (- A [BASE+6],2);	62008200
IF A [BASE+5] EQL USERCODE THEN	62008250
% VOID A CARD	62008800
MAKEFILE (LL&13[33:41:7],1,MAKEFN ("1S",LL),USERCODE,FILETYPE,0);	62008900
DOING:=6;	62009900
LLDISKREAD:=TPDKADR; % GET EOF POINTER RECORD IN "1P" FILE	62010375
WANT:=VDISKREAD;	62010400
DOING:=11;	62010450
IF A [BASE+1] GTR 0 OR A [BASE],[42:6] NEQ " " THEN	62011500
FIND (LL&IAM [33:41:7],0,A [BASE],[6:36],A [BASE+5],USERCODE);	62011800
\$ VOIDT	62011900
BEGIN LITOUT ("ERR: ",NOCRLF);	62012500
LITOUT (0 & "*" [6:42:6] & A [BASE] [12:6:36],CRLF);	62012550
IAM:=0; GO TO EXIT;	62012600
END;	62012650
BEGIN % CASE 11 - "1P" EOF POINTER IN CORE	62013502
IF WORK [0]=TEN8 THEN % EOF POINTER	62013504
BEGIN	62013506
WORK [20]:=FILETYPE; % NEW FILE TYPE	62013508
DISKWRITE (TPDKADR); % REPLACE EOF POINTER	62013510
IAM:=0;	62013512
END	62013514
ELSE	62013516
BEGIN % RATS - FILE TYPE IN NEXT SEGMENT	62013518
IF WORK [10]=TEN8 THEN	62013520
A [BASE]:=0	62013522
ELSE	62013524
IF WORK [20]=TEN8 THEN	62013526
A [BASE]:=10	62013528
ELSE % CANT FIND EOF MARKER - GIVING UP	62013530
BEGIN IAM:=0; GO EXIT END;	62013532
DOING:=12;	62013534
LLDISKREAD:=TPDKADR+1;	62013536
WANT:=VDISKREAD;	62013538
TEMP:=1;	62013540
END;	62013542
END; % CASE 11	62013544
BEGIN % CASE 12 - FINALLY GOT FILETYPE IN "1P" EOF RECORD	62013546
WORK [A [BASE]]:=FILETYPE;	62013548

```

DISKWRITE (TPDKADR+1);
IAMI=0;
END; % CASE 12
$# THIS PATCH UPDATES THE CHANGE COMMAND.
$#
$# THIS PATCH ALLOWS A USER TO SPECIFY A FID ON BOTH THE OLDFILE AND THE
$# NEW FILE. THE FORMAT IS MFID/FID.
$# EG. CHANGE A/B TO C/D
$# CHANGE SOURCE A/B FACTOR TO 8
$#
$# **WARNING** - REQUIRES PATCH # 501 FOR "FIXUSER"
$# **NOTE** - MCP DOES NOT CHECK SECURITY - NEEDS MCP PATCH # 563.
$#
$# D.G.WILLMS, 1JUN76.
$# PATCH UPDATED 13AUG76. D.G.WILLMS.
$# CANDE WILL NOW UPDATE THE "1P" FILE ON A WORKFILE TYPE CHANGE.
$# THIS IS DONE SO THAT CANDE WILL REMEMBER A TYPE CHANGE ACROSS A H/L.
$# PATCH NUMBER 519 FOR CANDE.XVI.0 CONTAINS 9 CARDS
STREAM PROCEDURE LOADCODE (PLACE);
BEGIN
DI:=PLACE; DI:=DI+2;
DS:=6 LIT " PST "; DI:=DI+26;
DS:=6 LIT " IOT ";
END OF LOADCODE;
TIMEUSED (WORK [6],TIMECONV (EVENTS [4],[16:32],FALSE));
LOADCODE (WORK [5]);
TWXOUT (LL,WORK [0],72,2);
$# THIS PATCH UPDATES CANDE EOJ MESSAGE.
$#
$# CANDE WILL NOW GIVE BOTH PROCESS & IO TIMES REQUIRED FOR EACH JOB STEP.
$# THE FORMAT IS <PST TIME> PST <IO TIME> IOT.
$#
$# D.G. WILLMS, 2JUN76.
$# PATCH NUMBER 520 FOR CANDE.XVI.0 CONTAINS 1 CARD.
$ VOIDT 61002900
$# THIS PATCH UPDATES THE REMOVE PROCEDURE.
$# A USER CAN NOW REMOVE A FILE IF IT HAS A NAME THAT IS A VERB (IE. BYE),
$# PRIOR TO THIS PATCH, A USER COULD CREATE THE FILE OR CHANGE ITS NAME
$# BUT HE COULD NOT REMOVE IT.
$#
$# D.G. WILLMS, 11JUN76.
$# PATCH NUMBER 521 FOR CANDE.XVI.0 CONTAINS 18 CARDS.
USERBASE, % BASE ADDR OF USERS/CANDE
$ VOIDT 00015200
LLDISKREAD:=USERBASE+I;
USERLOC:=USERBASE+USR;
STREAM PROCEDURE ERR (W);
BEGIN
DI:=W; DS:=31LIT"USERS/CANDE HAS MORE THAN 1 ROW"; DS:=LIT"+";
END OF ERR;
INTEGER I;
FOR I:=11 STEP 1 UNTIL 29 DO
IF WORK [I] GTR 0 THEN
BEGIN
ERR (L); TWXOUT (0,L [0],32,1);
I:=0/0; % KILL CANDE
END;

```

62013550
62013552
62013554

14052610
14052620
14052630
14052640
14052650
14052660
14213100
14213200
14215000

61002810

00012510
00015110
01011800
01012710
05000332
05000334
05000336
05000338
05000340
05001025
05001030
05001035
05001040
05001045
05001050

Yes

```

USERBASE:=WORK [10];
LLDISKREAD:=USERBASE; % USERS/CANDE RECORD ZERO
DISKWRITE (USERBASE);
$: THIS PATCH UPDATES THE LOGGING PROCEDURE.
$: USERS/CANDE MUST NOW BE A 1 ROW FILE. THIS WILL SPEED UP THE
$: LOGGING PROCEDURE AND CUT DOWN ON CANDES CORE REQUIREMENTS.
$:

```

```

05001055
36005200
36005900

```

```

$: D.G. WILLMS, 23 JUN 76.

```

```

$* PATCH NUMBER 522 FOR CANDE.XVI.0 CONTAINS 91 CARDS,
REUSERBASE, % BASE ADDR OF REMOTE/USERS

```

```

STREAM PROCEDURE SYSERR (W);
BEGIN
DI:=W; DS:=26LIT"SYSTEM ERROR - PLEASE WAIT";
END OF SYSERR;
STREAM PROCEDURE OPERR (W,S,UC,UR); VALUE S,UC,UR;
BEGIN
LABEL TO,T1,T2,EXIT;
DI:=W; DS:=19LIT"CANDE=REMOTE/USERS ";
CI:=CI+S;
GO TO TO;
GO TO T1;
GO TO T2;
DS:=16LIT"LINK ERROR FROM ";
SI:=LOC UC; SI:=SI+1; DS:=7 CHR;
DS:=4LIT" TO ";
SI:=SI+1; DS:=7 CHR;
GO TO EXIT;
T0:
DS:=7LIT"NO FILE"; DS:=27LIT" ";
GO TO EXIT;
T1:
DS:=12LIT"INVALID USER"; DS:=22LIT" ";
GO TO EXIT;
T2:
DS:=10LIT"ROWS GTR 1"; DS:=24LIT" ";
EXIT:
END OF OPERR;
STREAM PROCEDURE NOMONEY (W);
BEGIN
DI:=W; DS:=46LIT"SORRY, YOU CAN NOT USE THE SYSTEM AT THIS TIME=";
DS:=19LIT"ALLOCATION EXCEEDED";
END OF NOMONEY;
LABEL GETREUSER,KICKOFF,MONEYOK;
TEMP:=8;
A [BASE+7]:=WORK [28]; % REMOTE/USERS OFFSET
IF REMUSERBASE EQL 0 THEN % FIRST USER LOGGING IN
BEGIN
FIND (LL&IAM [33:41:7],0,"REMOTE ","USERS ",PRIVUCODE);
WAITFOR:=IAM;
DOING:=8;
GO TO EXIT;
END;
GETREUSER:
LLDISKREAD:=REMUSERBASE+A [BASE+7];
WANT:=VDISKREAD;
DOING:=10;
GO TO EXIT;

```

```

00012520
01005102
01005104
01005106
01005108
01005110
01005112
01005114
01005116
01005118
01005120
01005122
01005124
01005126
01005128
01005130
01005132
01005134
01005136
01005138
01005140
01005142
01005144
01005146
01005148
01005150
01005152
01005154
01005160
01005162
01005164
01005166
01005168
01005350
01012100
01014250
01015640
01015645
01015650
01015655
01015660
01015665
01015670
01015675
01015680
01015685
01015690
01015695

```



```

MONEYOK: 01015697
KICKOFF: 01015850
BEGIN % CASE 8 .....01021205
IF EVENTS [1] LSS 2 THEN 01021210
  BEGIN 01021215
  SYSERR (WORK); TWXOUT (LL,WORK [0],26,1); 01021220
  OPERR (WORK,EVENTS [1]+1,"0","0"); TWXOUT (0,WORK [0],53,1);01021225
  IAM:=0; 01021230
  GO TO EXIT; 01021235
  END; 01021237
LLDISKREAD:=EVENTS [2],[18:15]; 01021240
WANT:=VDISKREAD; 01021245
DOING:=9; 01021250
GO TO EXIT; 01021255
END CASE8; % .....01021260
BEGIN % CASE 9 .....01021265
FOR I:=11 STEP 1 UNTIL 29 DO 01021270
  IF WORK [I] GTR 0 THEN 01021275
  BEGIN 01021280
  SYSERR (WORK); TWXOUT (LL,WORK [0],26,1); 01021285
  OPERR (WORK,2,"0","0"); TWXOUT (0,WORK [0],53,1); 01021290
  IAM:=0; 01021295
  GO TO EXIT; 01021300
  END; 01021305
  REMUSERBASE:=WORK [10]; 01021310
  GO TO GETREMUSER; 01021315
  END CASE9; % .....01021320
BEGIN % CASE 10.....01021325
IF USR:=WORK [0] NEQ USERCODE THEN 01021330
  BEGIN 01021335
  SYSERR (WORK); TWXOUT (LL,WORK [0],26,1); 01021340
  OPERR (WORK,3,USERCODE,USR); TWXOUT (0,WORK [0],53,1); 01021345
  IAM:=0; 01021350
  GO TO EXIT; 01021355
  END; 01021360
  IF B (WORK [1],[10:1]) THEN 01021365
  BEGIN 01021370
  NOMONEY (WORK); TWXOUT (LL,WORK [0],65,1); 01021375
  GO TO KICKOFF; 01021380
  END; 01021385
  GO TO MONEYOK; 01021387
  END CASE10;% .....01021390
END ALL CASES; 01021395

```

```

$: THIS PATCH UPDATES THE LOGGING IN PROCEDURE.
$: WHEN A USER ATTEMPTS TO LOG IN, CANDE READS HIS REMOTE/USERS RECORD TO
$: DETERMINE IF THE USER HAS EXCEEDED HIS ALLOCATION OR NOT (EACH
$: USERS/CANDE RECORD HAS THE OFFSET INTO REMOTE/USERS REQUIRED TO FIND
$: THE CORRESPONDING USERCODE). USERS EXCEEDED THEIR ALLOCATION ARE
$: NOT ALLOWED TO LOG IN. IF REMOTE/USERS IS NOT ON DISK OR HAS MORE
$: MORE THAN 1 ROW OR CANDE IS AN INVALID USER, THE USER IS ASKED TO WAIT
$: WHILE THE OPERATOR IS INFORMED OF THE ERROR. ONCE CORRECTED THE USER
$: MAY ATTEMPT TO LOG IN AGAIN. CANDE WILL ALSO BE ANNOYED IF THE USERCODE
$: READ FROM REMOTE/USERS IS NOT THE USERCODE LOGGING IN. CANDE WILL
$: TREAT THIS ERROR THE SAME AS THE NO FILE CONDITION DESCRIBED ABOVE.

```

```

$:
$: D.G. WILLMS, 23JUN76.
$: PATCH NUMBER 523 FOR CANDE.XVI.0 CONTAINS 18 CARDS.

```

```

% TO VOID A CARD
TEMP:=8;          % MUST NOT BE 4 - SSFILE USES AS FLAG
IF EVENTS [3] LSS 0 THEN GO TO WINDUP; % NO RECORDS
LLDISKREAD:=EVENTS [2].[18:15];
DOING:=2;         % TRANSFER TO
IAM:=VSSFILE;    % SSFILE
A [BASE+3]:=LL;

$ VOIDT
DEFINE SPOCNTRL = A [BASE+2] #;
BEGIN
IF TEMP NEQ 4 THEN % RETURN TO "HITHERE"
BEGIN
IAM:=VHELLO; DOING:=7;
END
ELSE
IAM:=0;
GO TO EXIT;
END;

$: THIS PATCH UPDATES LOGGING IN.
$: IF THE NEWS/CANDE FILE IS PRESENT DURING LOGIN, PROCEDURE SSFILE WILL
$: BE CALLED TO LIST THE ENTIRE FILE, CONTROL WILL THEN GO BACK TO
$: HITHERE.
$: ALSO CANDE WILL NOT LIST SEGMENT ZERO ON THE TERMINAL IF THE
$: NEWS/CANDE FILE CONTAINS NO RECORDS (IE. ROW 1 AT SEGMENT 0).
$:
$: D.G. WILLMS, 24JUN76.

```

```

00011600
01012100
01019350
01019400
01019550
01019600
01019650
01019900
42000450
42007000
42007010
42007020
42007030
42007040
42007050
42007060
42007070
42007080

```

```

$# PATCH NUMBER 524 FOR CANDE.XVI.0 CONTAINS 9 CARDS.
IF A [BASE] LSS 50 THEN % CHECK FOLLOWING IF NOT "HELLO"
BEGIN
IF T:=((A [SREG]=BASE-A [BASE])).FF) > 1 THEN
GOERR ("TOOMANY",16); % TOO MANY PARAMETERS
IF T = 1 THEN
IF T:=(A [INC (SREG)].[6:42])="BYE " THEN%FORCED BYE
ELSE GOERR (T,8) % ILLEGAL PARAMETER
ELSE
END;

```

```

54000601
54000602
54000603
54000604
54000605
54000606
54000607
54000608
54000665

```

```

$: THIS PATCH UPDATES BYE.
$: IF A USER TRANSMITS BYE BYE, CANDE WILL NOT CHECK TO SEE IF HIS WORK
$: FILE HAS UNSAVED RECORDS IN IT, IT WILL GO DIRECTLY TO LOGGING HIM OFF.
$: IF A USER EXCEEDS HIS IDLE PERIOD, THE MCP WILL ALSO SEND A BYE BYE
$: COMMAND TO DISCONNECT HIM IMMEDIATELY.

```

REQUIRES MCP PATCH # FOR THIS TO HAPPEN

```

$: D.G.WILLMS, 11AUG76.
$# PATCH NUMBER 525 FOR CANDE.XVI.0 CONTAINS 1 CARD.
WORK [18]:=5; % PRIORITY

```

```

32001800

```

```

$: THIS PATCH ALTERS THE DEFAULT PRIORITY OF JOBS COMPILED UNDER CANDE.
$: THIS PRIORITY IS 5. THIS WILL ONLY BE USED WHEN A PROGRAM COMPILED
$: UNDER CANDE IS EXECUTED UNDER BATCH.

```

```

$: D.G.WILLMS, 13APR76.
$# PATCH NUMBER 526 FOR CANDE.XVI.0 CONTAINS 3 CARDS.
IAM:=0;
IAM:=0;
IAM:=0;

```

```

01021000
09002900
09004400

```

```

$: THIS PATCH CAUSES CANDE TO SET UP THE "1P" AND "1T" FILES ONLY IF THE
$: USER IS GOING TO USE A WORK FILE (IE, "MAKE" OR "LOAD"), PRIOR TO
$: THIS PATCH CANDE WOULD SET THESE FILES UP WHENEVER A USER LOGGED IN.

```

\$: SOME USERS NEVER USE A WORK FILE AND THUS DON'T NEED THESE FILES.
\$: THIS WILL ALSO HELP TO REDUCE CLUTTER ON THE DISK.

\$:
\$: D.G.WILLMS,16AUG76.

\$# PATCH NUMBER 527 FOR CANDE.XVI.0 CONTAINS 37 CARDS.

```
*****00066150
PROCEDURE FILESAWAY (OBJT00,USERCODE); VALUE OBJT00,USERCODE; 00066200
      BOOLEAN OBJT00; REAL USERCODE; 00066225
*****00066250
      BEGIN 00066300
      REAL T1,T2; 00066350
      T1:=LL & 13 [33:41:7]; 00066400
      REMOVEFILE (T1,T2:=MAKEFN ("1S",LL),USERCODE); 00066450
      IF OBJT00 THEN REMOVEFILE (T1,T2.[6:36],USERCODE); 00066500
      REMOVEFILE (T1,T2 & "P" [12:42:6],USERCODE); 00066550
      REMOVEFILE (T1,T2 & "T" [12:42:6],USERCODE); 00066600
      REMOVEFILE (T1,T2 & "Q" [12:42:6],USERCODE); 00066650
      T2.[36:12]:=1; 00066700
      REMOVEFILE (T1,T2 & "P" [12:42:6],USERCODE); 00066750
      END OF FILESAWAY; 00066800
      FILESAWAY (TRUE,USERCODE); 54002200
$ VOIDT 54002950 54002300
WRKFILE; 61001000
      IF FILENAME = 0 THEN GOERR ("NO FILE",1); 61001050
      TPCOUNT:=FILENAME:=SOURCEFILE:=IAM:=0; 61001100
      FILESAWAY (NOT S,USERCODE); 61001110
      FILESOK:=FALSE; 61001120
      IF NOT S THEN GOODOBJ:=B (OBJECTFILE:=0); 61001130
      IF 0 THEN 61003213
      IF GOODOBJ THEN 61003216
      BEGIN 61003220
      OBJECTFILE:=0; 61003223
      GOODOBJ:=FALSE; 61003226
      X:=MAKEFN ("1S",LL); 61003230
      REMOVEFILE (LL & 13 [33:41:7],X.[6:36],USERCODE); 61003233
      IAM:=0; 61003236
      GO EXIT; 61003240
      END 61003243
      ELSE 61003246
      GOERR ("NO FILE",26) 61003250
      ELSE 61003253
      GO TO WRKFILE; 61003260
```

\$: THIS PATCH UPDATES "REMOVE".
\$: IF A USER REMOVES HIS WORKFILE, CANDE WILL NOW REMOVE ALL ASSOCIATED
\$: FILES (IE, "1S", "1P", "1T", ETC).
\$: IF A USER ATTEMPTS TO REMOVE HIS WORKFILE (OR HIS OBJECT WORKFILE)
\$: CANDE WILL NOW CHECK TO SEE IF HE HAS ONE RATHER THAN JUST RESPONDING
\$: WITH A "#".

\$:
\$: D.G.WILLMS,17AUG76.

\$# PATCH NUMBER 528 FOR CANDE.XVI.0 CONTAINS 124 CARDS.

```
DEFINE NUMOFVERBS = 50#, 00008500
*****65000100
PROCEDURE BATCHIT (LCW,A); BOOLEAN LCW; ARRAY A [0]; 65000200
*****65000300
BEGIN 65000400
INTEGER I,PC; 65000500
```

```

REAL WORD;
BOOLEAN TOIT,SENDIT,LIBTOG;
LABEL LIBFIL,EXIT;
      CASE DOING OF
BEGIN   % ALL CASES
BEGIN   % CASE 0 = SYNTAX CHECK
      IF TPCOUNT GTR 0 THEN   % WORKFILE NEEDS UPDATING
      BEGIN
      LITOUT ("WAIT. ",NOCRLF); TEMP:=1; WANT:=VUPDATE;
      GO EXIT;
      END;
      CLEAR (WORK [0],10);
      LIBTOG:=TOIT:=SENDIT:=B (I:=0);
      PC:=A [SREG:=BASE-A [BASE]].FF;
      WHILE I LSS PC DO   % PICK UP ALL PARAMETERS
BEGIN
      INC (I);
      WORD:=A [INC (SREG)];
      IF WORD.[3:3] GTR 0 THEN % LETTER STRING
      BEGIN
      WORD:=WORD.[6:42];
      IF WORD = "SMALL " THEN
      IF WORK [4] = 0 THEN WORK [4]:="PSEUDOS"
      ELSE GOERR (WORD,32)   % "SIZE" ALREADY IN
      ELSE
      IF WORD = "MEDIUM " THEN
      IF WORK [4] = 0 THEN WORK [4]:="PSEUDOM"
      ELSE GOERR (WORD,32)
      ELSE
      IF WORD = "LARGE " THEN
      IF WORK [4] = 0 THEN WORK [4]:="PSEUDOL"
      ELSE GOERR (WORD,32)
      ELSE
      IF WORD = "TO " THEN
      IF TOIT THEN GOERR (WORD,8)
      ELSE TOIT:=TRUE
      ELSE
      IF WORD = "LIBRARY" THEN
LIBFIL:
      IF LIBTOG THEN GOERR (WORD,8) ELSE
      IF TOIT THEN GOERR (WORD,39)
      ELSE
      BEGIN
      LIBTOG:=TRUE;
      IF I+2 LEQ PC THEN FIXUSER (I,A,EXIT,TRUE);
      END
      ELSE
      IF WORD = "SEND " THEN
      IF SENDIT THEN GOERR (WORD,8)
      ELSE SENDIT:=TRUE
      ELSE
      IF WORD = "GLENRID" THEN
      IF SENDIT THEN
      IF WORK [9] = 0 THEN WORK [9]:=2
      ELSE GOERR (WORD,8)
      ELSE GOERR (WORD,8)
      ELSE

```

```

65000600
65000700
65000800
65000900
65001000
65001100
65001200
65001300
65001400
65001500
65001600
65001700
65001800
65001900
65002000
65002100
65002200
65002300
65002400
65002500
65002600
65002700
65002800
65002900
65003000
65003100
65003200
65003300
65003400
65003500
65003600
65003700
65003800
65003900
65004000
65004100
65004200
65004300
65004400
65004500
65004600
65004700
65004800
65004900
65005000
65005100
65005200
65005300
65005400
65005500
65005600
65006300
65006400
65006500
65006600
65006700
65006800

```

```

IF WORD = "BLANK " THEN
  IF WORK [5] = 0 THEN WORK [5] := 1
  ELSE GOERR (WORD,8)
ELSE
  % MUST BE FILE=NAME
  IF TOIT THEN
    IF WORK [2] = 0 THEN
      IF WORD,[42:6]=" " THEN WORK [2]:=WORD,[6:36]
      ELSE GOERR (WORD,42)
    ELSE GOERR (WORD,8)
  ELSE
    IF WORK[REAL(LIBTOG)]=0 THEN WORK[REAL(LIBTOG)]:=WORD
    ELSE GOERR (WORD,8)
  END
  % LETTER STRING
ELSE
  IF WORD,[1:2] = 1 THEN % SPECIAL CHARACTER
    IF WORD = "/" THEN GO TO LIBFIL
    ELSE GOERR (WORD,8)
  ELSE
    GOERR (WORD,8); % NUMBER
  END;
  % PICKING UP PARAMETERS
  IF WORK [0] = 0 THEN IF FILENAME = 0 THEN GOERR ("NO FILE",1)
  ELSE WORK [0]:=SOURCEFILE;
  IF WORK [1] = 0 THEN WORK [1]:=USERCODE;
  IF WORK [2] = 0 THEN GOERR ("NO FILE",38);
  WORK [2],[6:6]:=USERCODE,[6:6];
  WORK[3]:=USERCODE;
  IF WORK [4] = 0 THEN WORK [4]:="PSEUDOL";
  MOVE (2,WORDS,USERNAME1,WORK [6]);
  WORK [8]:=LL;
  IF WORK [9] = 0 THEN IF SENDIT THEN GOERR ("SEND ",8)
  ELSE WORK [9]:=1;
  FIND (LL&IAM [33:41:7],0,A [BASE]:=WORK [0],WORK [1],USERCODE);
  A [BASE+1]:=WORK [2];
  A [BASE+2]:=WORK [4];
  DISKWRITE (ESP1);
  TEMP:=3;
  DOING:=1;
  WAITFOR:=IAM;
END; % CASE 0;
BEGIN % CASE 1 - RESULTS OF INPUT FILE SEARCH
  IF EVENTS [1] LSS 0 THEN GOERR (A [BASE],2); % NOT ON DISK
  IF EVENTS [1] = 0 THEN GOERR (A [BASE],24); % SECURED
  FIND (LL&IAM [33:41:7],0,A [BASE+1],A [BASE+2],USERCODE);
  DOING:=2;
  WAITFOR:=IAM;
END; % CASE 1
BEGIN % CASE 2
  IF EVENTS [1] GEQ 0 THEN GUERR (A [BASE+1],3); % ON DISK
  LITOUT ("WAIT. ",1);
  EOJMSG:=NOT CONCISE;
  WRITEASTERISK:=CONCISE;
  RUN1:="BATCH ";
  RUN2:="CANDE ";
  IAM:=VOISPATCH;
  ERRSW:=USERCODE;
END; % CASE 2
END; % ALL CASES

```

```

65006900
65007000
65007100
65007200
65007300
65007350
65007400
65007450
65007500
65007600
65007700
65007800
65007900
65008000
65008100
65008200
65008300
65008400
65008500
65008600
65008700
65008750
65008800
65008900
65008950
65009000
65009100
65009200
65009210
65009220
65009225
65009300
65009400
65009450
65009500
65009600
65009700
65009800
65009900
65010000
65010100
65010200
65010300
65010400
65010500
65010600
65010700
65010800
65010900
65011000
65011100
65011200
65011300
65011400
65011500
65011600
65011700

```

EXIT:
END OF BATCHIT;

BATCHIT (LCW,A [*]); % 66 - BATCH

"5BATCH " 3"3001420000000102", % 66

S: THIS PATCH ADDS A NEW VERB "BATCH". THE BATCH VERB WILL TAKE A
S: CARD-IMAGE FILE AND CREATE A PSEUDO-DECK. FILES DESIGNATED AS
S: "SMALL" (SEE SYNTAX BELOW) WILL BE ZIPPED IMMEDIATELY, WHILE MEDIUM
S: AND LARGE ARE PLACED ON DISK FOR SUBSEQUENT ZIPPING.

S:

S: SYNTAX.

S: BATCH [FILE-NAME **OR** FILE-NAME / FILE-NAME **OR**

S: FILE-NAME LIBRARY FILE-NAME] [SMALL **OR** MEDIUM **OR** LARGE]

S: [BLANK] TO FILE-NAME=2 [SEND GLENRIDGE].

S: NOTES:

S: IF FILE-NAME-1 IS NOT SUPPLIED, THE WORK FILE WILL BE USED.

S: DEFAULT SIZE IS LARGE.

S: BLANK WILL BLANK OUT THE SEQUENCE NUMBER ON DATA CARDS OF THE FILE

S: BEING ZIPPED (DEFAULT - BLANK:=FALSE);

S: FILE-NAME-2 MUST NOT EXIST ON DISK (FILE IS CREATED IN THE FORM

S: <CHAR. 1 OF USERCODE><FILE-NAME-2> / PSEUDOX WHERE X IS S,M,OR L

S: (FOR SMALL MEDIUM AND LARGE RESPECTIVELY)).

S: DEFAULT SEND IS "NO SEND" (IE. KEEP IN COMPUTING CENTRE).

S: DEFAULT SEND IS DECEW.

S: CANDE FIRES UP BATCH/CANDE TO DO THE BATCHING FUNCTION.

S: **WARNING** - PATCH WILL REQUIRE DIFFERENT SEQUENCE NUMBERS IF

S: PATCH # 403 IS NOT USED.

S:

S: D.G.WILLMS, 1SEP76.

65011800

65011900

90317000

90403440

LABEL 00000000LINE 00176349CC EX O/R;COMMON=1;FILE S=CANDE/PATCHES;END*

0 /R