

STORAGE ALLOCATION. EDITOR

COMPASS - VER 2.

02/01/71 11.31.42.

PAGE 1

ADDRESS LENGTH

BINARY CONTROL CARDS.

0 0

IDENT EDITOR
END

E D I T O R

COMPASS - VER 2.

02/01/71 11.32.03.

PAGE 2

IRENT EDITOR

1	BEAD
3	READ
4	WRITE
7	FILE
16	CBLK
17	PROBE
20	DBLK

```

ORG      0
EQU      0
BSZ      2          TWO ZERO WORDS
DATA     L.EDITOR.  CLASS CODE NAME
DATA     0LCLASS
DATA     3          MAP ENTRIES
DATA     10         SPACE FOR COMPILED MAP
VFD      60/STORAGE+VCOUNT  FIELD LENGTH
VFD      60/EDITOR
DATA     26         SIZE OF C-LIST
VFD      60/VCOUNT+BEGCODE
DATA     0,0,0,0    SCRATCH FILE
VFD      60/BEGCODE
DATA     0          READ/WRITE
IFEQ     FORBASC,1
ENDIF
IFEQ     FORBASC,0
DATA     0LEDITOR
DATA     0LS
ENDIF
VFD      60/BCODEIF
VFD      60/BEGCODE
VFD      60/CODEL-BEGCODE  LENGTH
DATA     1          READ ONLY
DATA     0          SECOND MAP ENTRY
DATA     0
VFD      60/BEGCODE
VFD      60/STORAGE    BEG OF R/W AREA
VFD      60/VCOUNT
DATA     0          READ/WRITE
DATA     -1
DATA     L.CBLK.
DATA     L.OPERATE.
DATA     L.PROBE.
DATA     L.OPERATE.
DATA     L.DELBLK.
DATA     L.OPERATE.
DATA     L.RETURN.
DATA     L.OPERATE.
DATA     0LFRETUR,0LOPERATE
DATA     L.SAVE.
DATA     L.OPERATE.
DATA     L.RESTOR.
DATA     L.OPERATE.
DATA     L.RETPAR.,L.OPERATE.
DATA     0
EQU      1
EQU      3
EQU      4
EQU      7
EQU      14
EQU      15
EQU      16

```

EDITOR
C-LIST AND CREATION PARAMETERS

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	21	SPRETRN	EQU	17	
	22	FRETURN	EQU	18	
	23	SAVE	EQU	19	
	24	RESTOR	EQU	20	
	25	RETPAR	EQU	21	
	26	FCAP1	EQU	22	
	27	FCAP2	EQU	23	
	30	FCAP3	EQU	24	
	31	FCAP4	EQU	25	
		BCODEIF	BSS	0	BEGINNING OF CODE IN FILE
	6	PARAM1	EQU	6	FIRST PARAMETER
	7	FRSTCAL	EQU	7	
	10	INTERPT	EQU	8	
	11	XPACK	EQU	9	SPACE FOR XJ PACKAGE (20B LONG)
L	31		LOC	XPACK+16	RESET LOCATION COUNTER
L	31	BEGCODE	BSS	0	BEGINNING OF CODE IN CORE

56
31
—
25₈

EDITOR

EDITOR

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L 31

ASCII

XTEXT

MACRO

=,CDC,TTY

ASCII

160

6

ASCII EQU

6B

■

1

215

5

ASCII EQU

5B

■

2

LIST

L

3
1
D

		MACRO	VARP,MNAME,KNNAME
	MNAME	MACRO	N,P1,P2,P3,P4,P5,P6
	I=C	MACRO	NE,SP1SS,3
	II	SET	N
		KNNAME	II,P1
	MNAME	MACRO	N+1,P2,P3,P4,P5,P6
	ENDM		
	VARP	ENDM	
	CALL	MACRO	SUB,PARAMS
	LOCAL	RET	
	GENP	1,PARAMS	
	SR7	RET	
	JP	SUB	
	RET	BSS	0
	CALL	ENDM	
	GENP1	MACRO	I,P
		SY-I	P
	GENP1	ENDM	
	GENP	VARP	GENP1
	MACRO	SAVE,SUB,Q1,Q2,Q3,Q4,Q5,Q6	
	MACRO	R1,R2,R3,R4,R5,R6	
	GR	0,R1,R2,R3,R4,R5,R6	
	JP	E.SUB	
	RETURN	ENDM	
	SUB	Q=V	0,Q1,Q2,Q3,Q4,Q5,Q6
	SAVE	ENDM	
	GSV1	MACRO	I,P
	LOCAL	ARG	
	ARG	STORE	1
		SR7	P
		SR7	BS+ARG
		RMT	
		SAL	BS+ARG
		SRP	X1
		RMT	
	GSV1	ENDM	
	GSV	VARP	GSV1
	GR1	MACRO	I,P
	II	SET	7-I
		SY,II	P
		ENDM	
	GR	VARP	GR1
	MACRO	SUBEND,SUB	
	E.SUB	BSS	0
		HERE	
		JP	87
	SUBEND	ENDM	
	SETGET	MACRO	WORD
		SAL	WORD
		SR1	49
		SR4	80
		MY0	53
	SETGET	ENDM	

```

SETPUT MACRO WORD
SAS WORD-1
BX7 X5
SA7 A5
MX7 0
SR6 49
ENDM
SETPUT PUTC MACRO SRC
LOCAL OUT
LX.SRC B6,X.SRC
BX7 X7+X.SRC
SR6 B6-7
GE B6,B0,OUT
SA7 A7+1
MX7 0
SR6 49
BS B5
ENDM
ENDPUT MACRO
LOCAL OUT
SR6 B6-49
EQ B6,B0,OUT
SA7 A7+1
BS B5
ENDM
OUT ENDPUT
JPIF MACRO REG=SYM,LAP
IFEQ SYM,0,1
ZR X.REG,LAP
IFNE SYM,0,2
SX5 X.REG-SYM
ZR X5,LAP
ENDM
JPIF JPIFN MACRO REG=SYM,LAB
IFEQ SYM,0,1
NZ X.REG,LAB
IFNE SYM,0,2
SX5 X.REG-SYM
NZ X5,LAB
ENDM
JPIFN DIGIT MACRO REG,LAB
LOCAL NO
SX5 X.REG-ZEROS
NZ X5,NO
SX5 X5-10
NZ X5,LAB
BS B5
ENDM
NO DIGIT NLETTER MACRO REG,LAB
SX5 X.REG-AS
NZ X5,LAB
SX5 X.REG-ZS-1
PL X5,LAB
ENDM

```

```

MACRO
STORE,V,N
V
EQU
VCOUNTR
SET
VCOUNTR
STORE
ENDM
BEAD
MACRO
ACT,NAME,ENT,CAP
SR6
ACT
SR7
CAP
SR1
ENT
BX1
NAME
SA2
BS+UNAME
+
XJ
SAVEL
-
VFD
30/0
XJ
BEADLOC
-
VFD
30/0
XJ
RESTORL
-
VFD
30/0
ENDM
VFD
60/BEAD
L 331 000000000000000000001 BEADLOC EQU 0
L LOCATE EQU 1
L UPDATE EQU 1
L 2 DELFILE EQU 2
L 5 PTTY EQU 5
L 6 GTTY EQU 6
L 332 000000000000000000023 SAVEL VFD 60/SAVE
L 333 000000000000000000011 VFD 60/XPACK
L 334 000000000000000000024 RESTORL VFD 60/RESTOR
L 335 000000000000000000011 VFD 60/XPACK
L CALLSP MACRO
PAR,FR
SPAR
O,PAR
SET
BS+SPCV
+
XJ
-7
IFC
NE, /FR//,2
-
VFD
30/1
JP
PR
IFC
EQ, /FR//,1
-
VFD
30/0
ENDM
SPAR1
MACRO
I,P
IF
REG,P,1
BX6
P
IF
-REG,P,1
SX6
P
SA6
BS+SPCV+I
ENDM
L 336 SPAR VARP SPAR1
GBSIZE MACRO
I,R
SA,R
I+7
ENDM
PBSIZE MACRO
I,R
BX6
X,R
SA6
I+7
ENDM
EQU
3
STUFF EQU 3

```

ACTIONS OF THE BEAD

```

GCFA      MACRO      B,R
           SA,R       B+5
           MX0        30
           BX,R       -X0*X,R
GCFA      ENDM
PCFA      MACRO      B,R
           BX6        X,R
           SA,R       B+5
           MX0        30
           BX6        -X0*X6
           BX,R       X0*X,R
           BX,6       X,R+X6
           SA6        A,R
PCFA      ENDM
PCMFA     MACRO      B,R
           BX6        X,R
           SA,R       B+6
           MX0        30
           BX,R       X0*X,R
           BX6        -X0*X6
           BX6        X,R+X6
           SA6        A,R
PCMFA     ENDM
GBFSIZE   MACRO      B,R
           SA,R       B+6
           AX,R       30
           SX,R       X,R
           ENDM
ZERO      MACRO      R
           BR         R-R
           ENDM
ZERO      ENDM
GNAME     MACRO      B,R
           SA,R       B+3
           MX0        42
           BX,R       X0*X,R
           ENDM
GNAME     ENDM
PNAME     MACRO      B,R
           BX6        X,R
           SA,R       B+3
           MX0        42
           BX6        X0*X6
           BX,R       -X0*X,R
           BX6        X,R+X6
           SA6        A,R
           ENDM
PNAME     ENDM
GCINDEX   MACRO      B,R
           SA,R       B
           ENDM
GCINDEX   ENDM
PCINDEX   MACRO      B,R
           BX6        X,R
           SA,6       B
           ENDM
PCINDEX   ENDM
GBBASE    MACRO      B,R

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```

      GBBASE      SA,R      B+1
      PBBASE      ENDM
      PBBASE      MACRO      B,R
                      Bx6      X,R
                      SA6      B+1
      PBBASE      ENDM
      GNWORD      MACRO      B,R
                      SA,R      R+2
      GNWORD      ENDM
      PNWORD      MACRO      B,R
                      Bx6      X,R
                      SA6      B+2
      PNWORD      ENDM
      S+S      MACRO      DS,S,AE
      DS      EQU      AE
      CRSLK      ENDM
      CRSLK      MACRO      RCAP,RADD,RFB
                      RFDS+6
                      Bx0      X,RADD
                      SX,RADD      X,RADD      . NEXT BLOCK ADDRESS
                      LX0      30
                      SX0      X0      . BLOCK SIZE
      CALLSP      (CBLK,X,RCAP,X,RADD)
                      Bx7      X0
                      LX7      30
                      LX0      X0+X,RADD
                      Bx7      X7+X0
                      SA7      A,RADD      . UPDATE MAX FILE ADD WORD IN FDB
      CRSLK      ENDM

```

A	DS	41B
B	DS	42B
C	DS	35
D	DS	36
E	DS	37
F	DS	38
G	DS	39
H	DS	40
I	DS	41
J	DS	42
K	DS	43
L	DS	44
M	DS	45
N	DS	46
O	DS	47
P	DS	48
Q	DS	49
R	DS	50
S	DS	51
T	DS	52
U	DS	53
V	DS	54
W	DS	55
X	DS	56
Y	DS	57
Z	DS	58
ZERO	DS	20B
ONE	DS	17
TWO	DS	18
THREE	DS	19
FOUR	DS	20
FIVE	DS	21
SIX	DS	22
SEVEN	DS	23
EIGHT	DS	24
NINE	DS	25
PLUS	DS	13B
MINUS	DS	15B
STAR	DS	12B
DIV	DS	17B
LP	DS	10B
RP	DS	11B
DSIGN	DS	4B
ESIGN	DS	35B
BLANK	DS	0
COMMA	DS	14B
DOT	DS	16B
ESC	DS	173B
LB	DS	73B
RB	DS	75B
COLON	DS	32B
QUOTE	DS	7B
PCS	DS	5B

. ESCAPE CHARACTER

AMPR	Ds	6B
QMARK	Ds	37B
DQUOTE	Ds	28
CR	Ds	155B
LT	Ds	34B
GT	Ds	36B
RUBOUT	Ds	137B
AO	Ds	0
NOT	Ds	136B
SEMI	Ds	33B

EDITOR
COMMAND MACRO AND VARIABLE ASSIGNMENTS

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* END OF COMMAND MACRO

EOC	MACRO	L	
	LOCAL	A	
	JPIF	6.CRS.L	
	JPIFN	6.SEMIS.A	
	SX6	A1	
	PX6	B1.X6	SAVE CH STREAM
	SA6	B5+IPS	
	JP	L	
	BSS	0	
	ENDM		
0	VCOUNT	0	
24	SCLINE	20	
	CLINE	SCLINE	
	ECLINE	1	
	LAST	1	
	NXTWRD	1	
	N	1	
	BTL	1	
	ETL	1	
	NLINE	1	
	SW	1	
	PAT	170	
	TTYBUFF	12	
	LLNO	1	
	IFILE	1	
	OFILE	1	
	SPECV	10	

			IFEQ	FORBASC,1	
			ENDIF		
			IFEQ	FORBASC,0,1	
L	336	0112442455155	HELLO	VFD	4/0,7/ES,7/DS,7/IS,7/TS,7/CRS
			IFEQ	FORBASC,1	
			ENDIF		
L	337		EDITOR	0	
L	337	6150002346		STORAGE	
		5110000443		FZERO	
L	340	13114		Bx1	X1-X4
		0301000444		ZR	X1,RECOVER . RECOVER FROM INTERRUPTS, ETC.
		10644		Bx6	X4
			FNAME	STORE	1
L	341	5165000337		SA6	B5+FNAME
		5165000342		SA6	B5+FILESP * 0 IFF NOT SPECIFIED
			UNAME	STORE	1
			UNAME2	STORE	1
			FILESP	STORE	1
L	342	10655		Bx6	X5
		5165000340		SA6	B5+UNAME . SAVE USER NAME
L	343	5165000341		SA6	B5+UNAME2 * SAVE AGAIN
		0304000361		ZR	X4,EDITOR1 . DON'T LOOK AT SYS ST TEXT BIT
L	344	10144		Bx1	X4
		10255		Bx2	X5
		6115001037		SB1	B5+FDB1+STUFF . USER NAME
L	345	6170000026		SB7	FCAP1
		6160000000		SB6	0
L	346	0130000332		XJ	SAVEL
		0000000000	-	VFD	30/0
L	347	0130000331		XJ	BEADLOC . LOCATE FILE
		0000000000	-	VFD	30/0
L	350	6160000001		SB6	UPDATE
L	351	0130000331		XJ	BEADLOC . CLEAR BUST BIT
		0000000000	-	VFD	30/0
L	352	0130000334		XJ	RESTORL
		0000000000	-	VFD	30/0
L	353	5121000003		SA2	B1+3
		73220		SA2	X2
		56110		SA1	B1
L	354	0302000363		ZR	X2,EDITOR2 . NULL FILE . DON'T CHECK SYSTEXT BIT
		7100000200		SA0	197
L	355	11001		Bx0	X0*X1
		03000000500		ZR	X0,NTSYSTAT . CHECK SYS ST TEXT BIT
L	356	0400000363		IFEQ	EDITOR2
L	357	16251414000000000000	NULL	DATA	0LNULL
L	360	03320000000000000000	CRLINE	VFD	4/0,7/CRS,49/0
L	361	5150000357	EDITOR1	SA5	NULL
		10655		Bx6	X5
L	362	5165000337		SA6	B5+FNAME
L	363	7110000336	EDITOR2	CALL	PUTTL,(HELLO)
L	365	5145000337		SA4	B5+FNAME
		7115001034		CALL	OPEN,(B5+FDB1,B5+BUFF1,FCAP1)
L	370	7115001034		CALL	INITR,(B5+FDB1)

• DOES THE OBVIOUS

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L 431 7256777710 J&IF 4,WS:WRITEF
L 432 7256777735 J&IF 6,BS:BACKUP
L 433 7110000441 ERR CALL PUTTL,(BERMESS)
L 435 0200000411 J& CLEAR
IF&EQ FORBASC,1
ENDIF

L 436 7110000442 BOTTOM CALL PUTTL,(BBMESS)
L 440 0200000411 J& CLEAR
L 441 0076371747755 BERMESS V&D 4/0,7/QMARK$,7/QMARK$,7/QMARK$,7/QMARK$,7/CR$
L 442 00244227550642753355 BBMESS V&D 4/0,7/STAR$,7/BS,7/OS,7/TS,7/TS,7/OS,7/MS,7/CR$

L 443 33000000000000000000 FZERO DATA ILO
L 444 5125000324 RECOVER S&2 BS+OFILE
S&3 X2+STUFF * GET FILE NAME
Z& X3,NO.RECOV * IF ZERO: ASSUME BAD NEWS
P&NWORD X2,1
O&1 X1-X1
P&CFA X2,1
S&1 BS+IFILE
O&X6 X6-X6
S&6 BS+LLNO
CALL INTR
S&7 BS+LAST
M&XINL

L 451 5115000323 CALL PUTTL,(RECOVMS)
S&1 CLEAR
O&X6 4/0,7/ES,7/DS,7/IS,7/TS,7/OS,7/RS,7/BLANK$,7/RS
L 452 5165000322 6170000454 V&D 4/0,7/ES,7/CS,7/OS,7/VS,7/ES,7/RS,7/ES,7/DS
L 454 5175000025 7170000001 V&D 4/0,7/CR$

L 460 7110000463 * NO.RECOV CALL PUTTL,(RECOVN)
L 462 0400000411 CALL PUTTL,(SYSTXTE1)
L 463 01124424550573100062 RECOVMS V&D SP&RETRN QUIT
L 464 01124327554453111244 V&D 4/0,7/RS,7/ES,7/CS,7/OS,7/VS,7/ES,7/RS,7/YS
L 465 0332 V&D 4/0,7/BLANK$,7/NS,7/OS,7/TS,7/BLANK$,7/PS,7/OS,7/SS
V&D 4/0,7/SS,7/IS,7/BS,7/LS,7/ES,7/CR$

L 466 7110000475 * NTSYSTXT CALL PUTTL,(SYSTXT)
L 470 7110000511 CALL PUTTL,(SYSTXTE1)
L 472 7160000021 EXIT * ABORT
L 475 01444521536662254471 RECOVN V&D 4/0,7/FS,7/IS,7/LS,7/ES,7/BLANK$,7/NS,7/DS,7/TS
L 476 00005627550003013663 V&D 4/0,7/BLANK$,7/SS,7/VS,7/SS,7/TS,7/ES,7/MS,7/BLANK$
L 477 0146512113045664 V&D 4/0,7/SS,7/TS,7/AS,7/NS,7/DS,7/AS,7/RS,7/DS
V&D 4/0,7/BLANK$,7/TS,7/ES,7/X$,7/TS,7/CR$,7/AS,7/AS
L 500 7110000505 SYSTXTE1 V&D 4/0,7/ES,7/DS,7/IS,7/TS,7/OS,7/RS,7/BLANK$,7/AS
L 502 7110000511 V&D 4/0,7/BS,7/OS,7/RS,7/TS,7/IS,7/NS,7/GS,7/CR$
L 504 0400000472 IF&EQ FORBASC,1
L 505 01145126112002713664 SYSTXTER V&D
L 506 00006334546642253200 V&D
L 507 01466420534442054444 V&D
L 510 00006422560646650241 V&D
L 511 01124424550573100041 SYSTXTE1 V&D
L 512 01045731150512711755 V&D
ENDIF

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L	513	5155000341		FINISH	SA5	B5+UNAME2	
		10755			Bx7	X5	
L	514	5175000340			SA7	B5+UNAME	* RESTORE USER NAME
		13444			Bx4	X4=X4	. ZERO X4
		13777			Bx7	X7=X7	
L	515	6170000516			CALL	GETC	
L	516	7256777622			JpIF	6,CR3,SAMEF1	
L	517	6170000520			CALL	GBCDN	
L	520	5175000337			SA7	B5+FNAME	. SAVE NEW FILE NAME
		10644			Bx6	X4	
L	521	5165000340			SA6	B5+UNAME	. SAVE NEW USER NAME
		0200000532			Jp	SAMEF	
L	522	5125000342		SAMEF1	SA2	B5+FILESF	
		0312000532			Nz	X2,SAMEF OK,USER GAVE THE FILE AT BEGINNING	
L	523	7110000526			CALL	PUTTL,(MGIVE)	
L	525	0200000411			Jp	CLEAR	
L	526	00244724554450011451		MGIVE	VFD	4/0,7/STARS,7/GS,7/IS,7/VS,7/ES,7/BLANKS,7/FS,7/IS	
L	527	01304500134412651200			VFD	4/0,7/LS,7/ES,7/BLANKS,7/NS,7/AS,7/MS,7/ES,7/BLANKS	
L	530	01127030130512152264			VFD	4/0,7/ES,7/XS,7/PS,7/LS,7/IS,7/CS,7/IS,7/TS	
L	531	013071664			VFD	4/0,7/LS,7/YS,7/CRS	
L	532	6170000533		SAMEF	CALL	PUTFLI	
L	533	5115000025			SA1	B5+LAST	
		0311000536			Nz	X1,ENDS	
L	534	6170000535			CALL	GETFLI	
L	535	5175000025			SA7	B5+LAST	
		0200000532			Jp	SAMEF	
L	536	6170000537		ENDS	CALL	MTOP	
L	537	5115001037			GNAME	B5+FDB1,1	
L	540	5125001034			GcINDEX	B5+FDB1,2	
		6160000001			BEAD	UPDATE,X1,B5+FDB1+STUFF,X2	. CLEAR BUSY BIT
L	546	5115000324		SAME	SA1	B5+OFILE	
		5221000003			GNAME	X1,2	
		53310			GcINDEX	X1,3	
L	550	6160000001			BEAD	UPDATE,X2,X1+STUFF,X3	
L	556	5115000324			SA1	B5+OFILE	BEAD CLOBBERS X15
		6160000002			BEAD	DELFILE,X2,X1+STUFF,X3	
L	564	5115000337		NODEL	SA1	B5+FNAME	
		5125000323			SA2	B5+IFILE	. INPUT FILE IS FILAL COPY
L	565	10611			PNAME	X2,1	
L	567	5155000340			SA3	B5+UNAME	
		43660			Mx6	48	
L	570	0305000573			Zr	X5,DONTPLAY	
		5125000323			SA2	B5+IFILE	
L	571	5242000004			SA4	X2+STUFF+1	. GET OLD USER NAME
		15446			Bx4	-X6*X4	. SAVE C-LIST INDEX
		11565			Bx5	X6*X5	. SAVE ONLY NEW USER NAME
L	572	12645			Bx6	X4+X5	
		54640			SA6	A4	. UPDATE FDB
L	573	5135000323		DONTPLAY	SA3	B5+IFILE	
		5243000003			GNAME	X3,4	
		53530			GcINDEX	X3,5	
L	575	6160000000			BEAD	LOCATE,X4,B5+FDB1+STUFF,FCAP1	* GET NEW FILE NAME
L	603	6160000002			BEAD	DELFILE,X4,B5+FDB1+STUFF,FCAP1	* DELETE IT

COMMAND PROCESSOR

EDITOR
FINISH

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L 611 6160000001
L
L 617 7160000021

BEAD
IFEQ
CALLSP

UPDATE,X4,X3+STUFF,X5
FORBASC,1,1
SPRETRN

* UPDATE NEW FILE

L 622 6170000623
L 623 7256777622
L 624 5115001037
L 625 6160000001
L 633 6160000001
L 641 6160000002
L 647 5115000323

L 650 37112 7125001034
0301000665
L 651 6160000001
L 657 6160000002
L 665

L 665 7160000021

QUIT

NOTHF

CALL GETC
JPIFN 6,CR\$,ERR MAKE SURE ITS A COMMAND
GNAME BS+FDB1,1
BEAD UPDATE,X1,BS+FDB1+STUFF,FCAP1 CLEAR BUSY BIT
BEAD UPDATE,X0,BS+FDB2+STUFF,FCAP2 CLEAR BUSY BIT
BEAD DELFILE,X0,BS+FDB2+STUFF,FCAP2
SAL BS+IFILE CHECK TO SEE IF ANOTHER
SX2 BS+FDB1 FILE NEEDS DELETING
IX1 X1-X2
ZR X1,NOTHF
BEAD UPDATE,X0,FDB3+BS+STUFF,FCAP3 CLEAR BUSY BIT
BEAD DELFILE,X0,FDB3+BS+STUFF,FCAP3
BSS 0
IFEQ FORBASC,1,1
CALLSP SPRETRN

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L	670	6170000671	PRINT1	CALL	PARSE	
L	671	7115000000	PLOOP	CALL	PUTTL, (B5+CLINE)	
L	673	7115000000		CALL	TESTL, (B5+CLINE)	
L	675	0317000407		N7	X7, MAIN	1=SUCCESS
		5115000025		SA1	B5+LAST	
L	676	0311000436		N7	X1, BOTTOM	
		6170000700		CALL	PUTFLI	GET RID OF LINE
L	700	6170000701		CALL	GETFLI	GET NEXT LINE
L	701	5175000025		SA7	B5+LAST	
		0200000671		JP	PLOOP	

L	702	6170000703	MOVE	CALL	PARSE	
L	703	5115000322		SA1	B5+LLNO	
		63110		SB1	X1	SAVE CUR LINE NO.
L	704	5115000032		SA1	B5+NLINE	SPECIAL ACTION IF NULL LINE
		0311000716		N7	X1, GLITCH	
L	705	6170000706	MLOOP	CALL	PUTFLI	
L	706	5115000025		SA1	B5+LAST	
		0301000710		ZR	X1, NOTEND	
L	707	6170000710		CALL	MTOP	GO TO TOP
L	710	6170000711	NOTEND	CALL	GETFLI	
L	711	5175000025		SA7	B5+LAST	
		5115000322		SA1	B5+LLNO	
L	712	76010		SK0	B1	
		37116		IX1	X1-X0	TEST FOR FULL CYCLE
		0301000723		ZR	X1, NOTFOUN	
L	713	7115000000	GL2	CALL	TESTL, (B5+CLINE)	
L	715	0317000407		N7	X7, MAIN	
		0200000705		JP	MLOOP	
L	716	5115000025	GLITCH	SA1	B5+LAST	AVOID TESTING LLNO FIRST TIME
		0301000721		ZR	X1, GL1	
L	717	6170000720		CALL	MTOP	
L	720	0410000721		EO	B1, B0, GL1	
		6111777776		SB1	B1-1	
L	721	6170000722	GL1	CALL	GETFLI	
L	722	5175000025		SA7	B5+LAST	
		0200000713		JP	GL2	
L	723	7115000000	NOTFOUN	CALL	TESTL, (B5+CLINE)	
L	725	0317000407		N7	X7, MAIN	
		7110000730		SK1	NFMESS	
L	726	6170000727		CALL	PUTTL	
L	727	0200000411		JP	CLEAR	
L	730	0024002713664000	NFMESS	VFD	4/0, 7/STAR\$, 7/BLANK\$, 7/NS, 7/OS, 7/TS, 7/BLANK\$	
		11457		VFD	7/FS, 7/OS, 4/0, 7/US, 7/NS, 7/DS, 7/CR\$, 28/0	
L	731	01525622332000000000				

L	732	6170000733	BACKUP	CALL	PARSE	
L	733	5115000033		SA1	B5+SW	
		7211776122		SX1	X1-COUNT1	
L	734	0311000433		NZ	X1.ERR	MUST BE A COUNT
		5115000027		SA1	B5+N	
L	735	5125000322		SA2	B5+LLNO	
		37121		IX1	X2-X1	
L	736	0331000746		NG	X1,BKERR	
		63110		SA1	X1	STOP COND= B1=LLNO
L	737	6170000740	BKLOOP	CALL	PUTFLI	
L	740	5115000025		SA1	B5+LAST	
		0301000742		ZR	X1,NBEND	
L	741	6170000742		CALL	MTOP	
L	742	6170000743	NBEND	CALL	GETFLI	
L	743	5175000025		SA7	B5+LAST	
		5115000322		SA1	B5+LLNO	
L	744	76010		SX0	B1	
		37110		IX1	X1-X0	ARE WE N LINES BACK
		0311000737		NZ	X1,BKLOOP	
L	745	0400000407		EQ	MAIN	YES. STOP
L	746	7110000751	BKERR	CALL	PUTTL,(TFBMESS)	
L	750	0200000411		JP	CLEAR	
L	751	00246427536002310262	TFBMESS	VFD	4/0,7/STARS,7/TS,7/OS,7/OS,7/BLANKS,7/FS,7/AS,7/RS	
L	752	0000422050653664		VFD	4/0,7/BLANKS,7/BS,7/AS,7/CS,7/KS,7/CRS	

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L	753	6170000754	TOP	CALL	GETC
L	754	7256777622		EOC	TLOOP
L	760	0200000433		JB	ERR
L	761	6170000762	TLOOP	CALL	PUTFLI
L	762	5115000025		SA1	BS+LAST
		0311000765		Nz	X1,ALLOUT
L	763	6170000764		CALL	GETFLI
L	764	5175000025		SA7	BS+LAST
		0200000761		JB	TLOOP
L	765	6170000766	ALLOUT	CALL	MTOP
L	766	0200000407		JB	MAIN

L	767	6170000770	INSERT	CALL	GETC	
L	770	7256777622		JpIFN	4,CRS,ERR	
L	771		APPEND1	BS	0	
L	771	6170000772		CALL	GETTL	
L	772	63270		SR2	X7	SAVE POINTR
		56120		SETGET	R2	
		6170000775		CALL	GETC	
L	775	7256777622		JpIF	6,CRS,MAIN	
				JpEQ	FORBASC,1	
				ENDIF		
L	776	6170000777		CALL	PUTFL	
L	777	56120		SETGET	R2	RE-INITIALIZE IPS
		6170001002		CALL	MWBC	MOVE WITH BLANK COMPRESSION
L	1002	0200001046		Jp	NXTLINA	
L	1003	76770	MWBC	SAVE	B7	
L	1004	5155777776		SETPUT	RS+CLINE	
L	1006	6170001007	MLOOP1	CALL	GETC	
L	1007	0306001021		JpIF	6,BLANKS,CBS	
L	1010	10466	RESN	Bx4	X6	
		22464		PUTC	4	
L	1014	7256777622		JpIFN	6,CRS,MLOOP1	
L	1015	6166777716		ENDPUT		
L	1017	74770		Sx7	A7	
		5175000024		SA7	BS+ECLINE	SAVE END OF LINE
L	1020	0200001044		RETURN		
L	1021	6170001022	CBS	CALL	GETC	
L	1022	0306001027		JpIF	6,BLANKS,MT1	
		7150000000		Sx5	BLANKS	
L	1023	22565		PUTC	5	
L	1026	0200001010		Jp	RESN	
L	1027	6120000002	MT1	SR2	2	TWO BLANKS IN A ROW
L	1030	6170001031	ROT	CALL	GETC	
L	1031	0316001033		JpIFN	6,BLANKS,RESUM	
		6122000001		SR2	R2+1	
L	1032	0200001030		Jp	ROT	
L	1033	7150000173	RESUM	Sx5	ESCS	
		22565		PUTC	5	
L	1037	76520		Sx5	B2	
		22565		PUTC	5	
L	1043	0200001010		Jp	RESN	
L	1044		MWBC	SUBEND		
L	1046	43600	NXTLINA	Rx6	0	
		5165000032		SA6	BS+NLINE	LINE NOT NULL
L	1047	0200000771		Jp	APPEND1	GO FOR NEXT TTY LINE

L	1050	6170001051	DELETE	CALL	PARSE	
L	1051	6110000000		SBI	0	COUNT OF LINES DELETED
L	1052	7115000000	DLOOP	CALL	TESTL, (B5+CLINE)	
L	1054	0317001065		NZ	X7,FINDE	
		5115000025		SA1	B5+LAST	
L	1055	0301001061		ZR	X1,NBOT	
		7110000442		CALL	PUTTL, (BBMESS)	
L	1057	13777		ZERO	X7	
		5175000343		SA7	B5+IPS	IGNORE REST OF ITY LINE
L	1060	0200001065		JB	FINDE	
L	1061	5115000032	NBOT	SA1	B5+NLINE	
		0311001063		NZ	X1,SKJAZZ	
L	1062	6111000001		SBI	B1+1	
L	1063	6170001064	SKJAZZ	CALL	GETFLI	GET NEXT LINE
L	1064	5175000025		SA7	B5+LAST	
		0200001052		JB	DLOOP	
			FINDEL	MACRO		
				SA6	I	FINISHED DELETING
				SA6	B5+NLINE	SET NULL LINE SIGNAL
				SA1	DELMESS	
				BA6	X1	
				SA6	B5+CLINE	STORE *DELETED IN CLINE
				SA1	DELMESS+1	
				BA6	X1	
				SA6	B5+CLINE+1	
				SA6	A6	
				SA6	B5+ECLINE	
				ENDM		
L	1065	5115000032	FINDE	SA1	B5+NLINE	
		0311001067		NZ	X1,SK7	
L	1066	6111000001		SBI	B1+1	
L	1067	7160000001	SK7	FINDEL		PLACE *DELETED IN CLINE
				IFEQ	FORBASC.1	
				ENDIF		
				IFEQ	FORBASC.0	
		0400000407		EQ	MAIN	
				ENDIF		
L	1074	40244422530453211244	DELMESS	VFO	4/8,7/STAR5,7/DS,7/ES,7/LS,7/ES,7/TS,7/ES,7/DS	
L	1075	03320000000000000000		VFO	4/0,7/CR5,49/6	

L	1076		CHANGE	BSS	0	
		62	PSIZE	EQU	50	PATTERN SIZE
			OLDP	STORE	PSIZE	
			NEWP	STORE	PSIZE	
			NCLINE	STORE	SCLINE	
			XLINE	STORE	5*SCLINE+3	EXPANDED LINE
			ANYM	STORE	1	
			MATCH	STORE	1	
			GLOBAL	STORE	1	
			LOP	STORE	1	
			LNP	STORE	1	
			LJ	STORE	1	
			J	STORE	1	
			BPM	STORE	1	
			RETEST	STORE	1	
L	1076	13777		ZERO	X7	ASSUME NOT GLOBAL
		5175001002		SA7	B5+GLOBAL	
L	1077	5170001100		CALL	GETC	
L	1100	7255777730		JBIFN	5,GS,NOTGL	
L	1101	7170000001		SX7	1	
		5175001002		SA7	B5+GLOBAL	
L	1102	5170001103	BLNLOOP	CALL	GETC	
L	1103	0305001102	NOTGL	JBIF	5,BLANKS,BLNLOOP	
		7255777622		JBIF	5,CRS,ERR	
		10255		BX2	X6	SAVE DELIMITER
L	1105	5125000345		SX2	B5+OLDP	B2=OLD PATTERN INDEX
			MOVEP	MACRO		
				LOCAL	FIN,L	
				SX3	B2+PSIZE	LIMIT
			L	CALL	GETC	
				BX5	X6-X2	COMPARE WITH DELIM
				ZR	X5,FIN	
				JBIF	5,CRS,ERR	
				GE	B2,B3,PTOORIG	
				SA6	B2	
				SX2	B2+1	
				JS	L	
			FIN	SX7	B2	
				ENDM		
		5132000052		MOVEP		
		5175001003		SA7	B5+LOP	
L	1114	5135000345		SX3	B5+OLDP	
		0523001116		NE	B2,B3,OKP	
L	1115	5135001002		SA3	B5+GLOBAL	
		0313000433		NZ	X3,ERR	IF NULL PATTERN IN GLOBAL MATCH
L	1116	5125000427	OKP	SX2	B5+NEWP	
		5132000052		MOVEP		
		5175001004		SA7	B5+LNP	
L	1125	5170001126		CALL	PARSE	
L	1126	13777		ZERO	X7	
		5175001000		SA7	B5+ANYM	ZERO NUMBER OF CHANGES
L	1127	5115000032		SA1	B5+NLINE	
		0311001207		NZ	X1,OUTSUB	SKIP IF NULL LINE

L	1130	5115000000	DOSUBST	SETGET	B5+CLINE	
		6125000535		SR2	B5+XLINE	
L	1132	6170001133	SUBL3	CALL	GETC	EXPAND LINE
L	1133	56620		SA6	B2	
		6122000001		SR2	B2+1	
L	1134	7256777622		JRIFN	6,CR\$,SUBL3	
L	1135	5155000510		SETPUT	B5+NCLINE	SET UP OUTPUT STREAM
		66300		SR3	B0	X7,B6,B3 BUSY DOWN TO OUTSUB
L	1137	13666		ZERO	X6	
		5165001001		SA6	B5+MATCH	ZERO MATCH COUNT
L	1140	6125000535		SR2	B5+XLINE	B2 = XLINE INDEX
L	1141	5115001003	L1	SA1	B5+LOP	
		63410		SR4	X1	B4= LIMIT OF LODP
		76620		SA6	B2	
L	1142	5165001005		SA6	B5+LJ	SAVE LAST J
L	1143	6115000345	L2	SR1	B5+OLDP	B1 = OLDP INEX
		76620		SA6	B2	
L	1144	5165001007		SA6	B5+BPM	SAVE START OF PAT MATCH
L	1145	0614001154	L3	GE	B1,B4,SMATCH	SUCCESSFUL IF OLDP EXHAUSTED
		54120		SA1	B2	
L	1146	7251777622		JRIF	1,CR\$,FMATCH	TRA IF LINE EXHAUSED
L	1147	56210		SA2	B1	
		13112		SR1	X1-X2	
		0311001152		N7	X1,BACK	
L	1150	6122000001		SR2	B2+1	
		6111000001		SR1	B1+1	
L	1151	0200001145		JR	L3	
L	1152	5115001007	BACK	SA1	B5+BPM	
		6221000001		SR2	X1+1	TRY MATCHING ONE FARTHER ON
L	1153	0200001143		SR1	L2	
L	1154	5115001001	SMATCH	SA1	B5+MATCH	
		7261000001		SA6	X1+1	
L	1155	5165001001		SA6	B5+MATCH	
		5115001005		SA1	B5+LJ	
L	1156	63110		SR1	X1	B1 = XLINE INDEX
		5115001007		SA1	B5+BPM	
		63410		SR4	X1	B4 = LIMIT
L	1157	76620		SA6	B2	
		5165001006		SA6	B5+J	
L	1160	6125000511		SR2	B5+NCLINE	
		6122000023		SR2	B2+SCLINE-1	
L	1161	0614001164	L4	GE	B1,B4,SPSTEM	
		54510		SA5	B1	
L	1162	6170001163		CALL	PUTCB	
L	1163	6111000001		SA1	B1+1	
		0200001161		JR	L4	
L	1164	6115000427	SPSTEM	SR1	B5+NEWP	
		5115001004		SA1	B5+LNP	
L	1165	63410		SR4	X1	
L	1166	0614001171	L5	GE	B1,B4,SPNP	
		54510		SA5	B1	
L	1167	6170001170		CALL	PUTCB	
L	1170	6111000001		SR1	B1+1	

L	1171	5115001006	SPNP	JP	L5	
		63210		SA1	B5+J	
		76620		SR2	X1	
L	1172	5165001005		SX6	R2	
		5115001002		SA6	B5+LJ	RESET LAST CHIPUT
L	1173	0311001141		SA1	B5+GLOBAL	
L	1174	5115001005	FINPUT	NZ	X1+L1	TRY FOR ANTORER
		53510		SA1	B5+LJ	
L	1175	6125000511		SA5	X1	
		6122000023		SR2	B5+NCLINE	
L	1176	10055	L6	SB2	B2+SCLINE-1	
		6170001200		BX0	X5	
L	1200	725077622		CALL	PUTCS	
L	1201	5055000001		JP IF	0,CR5,L8	
		0200001176		SA5	A5+1	
L	1202	6166777716	L8	JP	L6	
L	1204	74770		ENDPUT		
		5175000024		SX7	A7	
L	1205	0200001207		SA7	B5+ECLINE	SET ECLINE IN ADVANCE
L	1206	5115001001	FMATCH	JP	OUTSUB	
		0311001174		SA1	B5+MATCH	
L	1207	7115000000	OUTSUB	NZ	X1+FINPUT	JP IF NEW LINE
L	1211	5175001010		CALL	TESTL.(B5+CLINE)	
		5115001001		SA7	B5+RETEST	SAVE FOR LATER
L	1212	5125001000		SA1	B5+MATCH	
		36612		SA2	B5+ANYM	
L	1213	5165001000		IX6	X1+X2	
		0301001223		SA6	B5+ANYM	
				NZ	X1,NOMOVE1	
				IF EQ	FORBASC+1	
				ENDIF		
L	1214	6115000000	CHA	SA1	B5+CLINE	
		5115000024		SA1	B5+ECLINE	
L	1215	63310		SB3	X1	
		5115000511		SA1	B5+NCLINE	
		65313		SB3	A1-B3	. NEGATIVE WORD COUNT
L	1216	10611	L7	BX6	X1	
		56610		SA6	B1	
		0703001221		LT	B0,B3,NOMOVE	. DONE IF COUNTER .GT. 0
L	1217	6133000001		SB3	B3+1	. INCREMENT
		6111000001		SB1	B1+1	
L	1220	5011000001		SA1	A1+1	
		0200001216		JP	L7	
L	1221	5125000024	NOMOVE	SA2	B5+ECLINE	
		7110000511		SX1	NCLINE-CLINE FIX UP ECLINE	
L	1222	37721		IX7	X2-X1	
		54720		SA7	A2	
L	1223	5115001010	NOMOVE1	SA1	B5+RETEST	
		0311001230		NZ	X1,LVSUB	
L	1224	5115000025		SA1	B5+LAST	
		0311000436		NZ	X1,BOTTOM	
L	1225	6170001226		CALL	PUTFLI	
L	1226	6170001227		CALL	GETFLI	

L	1227	5175000025		S47	B5+LAST
		0200001130		JP	DOSUBST
L	1230	5115001000	LVSUB	S41	B5+ANYM
		0311000407		N7	X1.MAIN
L	1231	7110001234		CALL	PUTTL.(NCMESS)
L	1233	0200000411		JP	CLEAR
L	1234	0024562740043240	NCMESS	VFD	4/0,7/STAR\$,7/NS,7/OS,7/BLANK\$,7/CS,7/HS
		10256		VFD	7/AS,7/NS,4/0,7/GS,7/ES,7/STAR\$,7/CR\$
L	1235	01164505332		BSS	0
L	1236		PTO0BIG	JP	ERR
L	1236	0200000433	PCM	MACRO	R
				LOCAL	OUT
				LX.R	B6.X.R
				BX7	X7+X.R
				S40	B6-7
				GE	B6.B0.OUT
				OX.R	A7-B2
				OX.R	-X.R
				N6	X.R.LTO0BIG
				S47	A7+1
				R6	49
				NPRO	X7
			OUT	BSS	0
				ENDM	
			PUTCB	SAVE	
			RETURN	MACRO	
				JP IF	R1,R2,R3,R4,R5,R6
L	1237	0305001266			5.BLANK\$,CBL
		0430001261			B3.B0.SPUT
L	1240	4133777776			B3-1
		0430001254			B3.B0.ONEB
L	1241	7140000173			B5C6
		22666			0
L	1246	7163000001			B3+1
		22666			0
L	1253	66300			B0
		0200001261			SPUT
L	1254	13666	ONEB	NPRO	X6
		22666		PCM	0
L	1261	22565	SPUT	PCM	0
L	1265	0270000000		JP	B7
L	1266	6133000001	CBL	S43	B3+1
		0270000000		JP	B7
L	1267		LTO0BIG	BSS	0
L	1267	7110001272		CALL	PUTTL.LINEBIG
L	1271	0200000411		JP	CLEAR
L	1272	00245484534450015057	LINEBIG	VFD	4/0,7/STAR\$,7/LS,7/IS,7/NS,7/ES,7/BLANK\$,7/TS,7/OS
L	1273	013600211224705332		VFD	4/0,7/OS,7/BLANK\$,7/BS,7/IS,7/GS,7/STAR\$,7/CR\$
L	1274		PUTCB	SUBEND	

SAVEI

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LINE EDITOR

L	1275	6170001276	EDIT	CALL	PARSE	
L	1276	7115000000	EDLOOP	CALL	TESTL,(B5+CLINE)	
L	1300	5175001010		SA7	B5+RETEST	
		5115000032		SA1	B5+NLINE	
L	1301	0301001307		ZR	X1,NORED	
		7110001304		CALL	PUTTL,(LSKED)	
L	1303	0200001340		JP	TSOP	
L	1304	00246031512652213600	LSKED	VFD	4/0,7/STARS,7/PS,7/SS,7/ES,7/US,7/DS,7/OS,7/BLANKS	
L	1305	01305127112003152651		VFD	4/0,7/LS,7/IS,7/NS,7/ES,7/BLANKS,7/SS,7/KS,7/IS	
L	1306	0140602251012664		VFD	4/0,7/PS,7/PS,7/ES,7/DS,7/STARS,7/CRS	
L	1307	5115000000	NORED	SETGET	B5+CLINE	
		5155000510		SETPUT	B5+NCLINE	
		66300		SR3	B0	
L	1313	6133000001	PPL	SR3	B3+1	
		6170001315		CALL	GETC	
L	1315	10466		Bx4	X6	
		22464		PUTC	4	
L	1321	7256777622		JBIFN	6,CRS,PPL	
L	1322	6166777716		ENDPUT		
L	1324	7175000511		Sx7	B5+NCLINE	
		5175001031		SA7	B5+LINEDES	
L	1325	76730		Sx7	B3	
		5175001032		SA7	B5+LINEDES+1	
L	1326	7170000240		Sx7	B5+CLINE	
		5175001033		SA7	B5+LINEDES+2	
L	1327	6160000013		BEAD	11,X0,B5+LINEDES,B0	
L				IFEQ	FORBASC,1	
				ENDIF		
L	1335	5115000511		SETGET	B5+NCLINE	
		6170001340		CALL	MWBC	
L	1340	5115001010	TSOP	SA1	B5+RETEST	TEST ORIGINAL LINE
		0311000407		NZ	X1,MAIN	
L	1341	5115000025		SA1	B5+LAST	
		0311000436		RZ	X1,BOTTOM	
L	1342	6170001343		CALL	PUTFLI	
L	1343	6170001344		CALL	GETFLI	
L	1344	5175000025		SA7	B5+LAST	
		0200001276		JP	EDLOOP	

EDITOR READ A FILE INTO THIS ONE

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L	1345	6170001346	READF	CALL	GETC
L	1346	7256777622		ENC	ERR
L	1352	6170001353		CALL	GBCDN GET FILE NAMES
L	1353	7256777763		JEIF	6,COMMAS,ERR OTHERWISE IT WAS EOC
L	1354	10644		Bx6	X4
		5165000340		SA6	B5+UNAME
		10477		Bx4	X7
L	1355	7115001064		CALL	OPEN, (B5+FDB4,B5+BUFF3,FCAP4)
L	1360	5125000323		SA2	B5+IFILE
		10622		Bx6	X2
L	1361	5165001011	REALIF	STORE	1
		7115001064		SA6	B5+REALIF BECAUSE INTR CLOBBERS IFILE
L	1363	0317001367		CALL	INTR, (B5+FDB4)
L	1364	6170001368	RFLOOP	NZ	X7,EMPTYER
L	1365	6170001368		CALL	PUTFL
				CALL	GETFL
				IFEG	FORBASC,1
				ENDIF	
L	1366	0307001364		ZR	X7,RFLOOP
		0400001374		EQ	RESTORI
L	1367	7110001372	EMPTYER	CALL	PUTTL, (EFMESS)
L	1371	6140000411		SR4	CLEAR
		0200001375		JP	B111
L	1372	002445265406434400	EFMESS	VFD	4/0,7/STARS,7/ES,7/MS,7/PS,7/TS,7/YS,7/BLANKS
		046		VFD	7/FS,4/0,7/IS,7/LS,7/ES,7/STARS,7/CRS
L	1373	0122542242555			
L	1374	6140000407	RESTORI	SR4	MAIN
L	1375	5125001011	B111	SA2	B5+REALIF
		10722		Bx7	X2
L	1376	5175000323		SA7	B5+IFILE
		5145000337		SA4	B5+FNAME
L	1377	6160000001		BEAD	UPDATE,X4,B5+STUFF+FDB4,FCAP4
L	1405	0240000000		JP	B4

L	1406	6170001407	WRITEF	CALL	GETC
L	1407	7256777622		ENC	ERR
L	1413	6170001414		CALL	GBCDN
L	1414	5175001012		SA7	GET OUTPUT FILE NAMES
			FNAME1	B5+FNAME1	
		10744		STORE	I
L	1415	5175000340		Bx7	X4
		7256777763		SA7	B5+UNAME
		7170001660		UBIF	6,COMMAS,REALPA
L	1417	5175000033		Sx7	TLASTL
		0400001423		SA7	ASSUME REST OF FILE IS
L	1420	5115000343	REALPA	EQ	TO BE WRITTEN OUT
		26111		ROTH10	
		13666		SA1	B5+IPS
L	1421	54610		UX1	GET CH STREAM BACKI
		53110		ZERO	R1,X1
		6170001423		SA6	X6
L	1423	5145001012	BOTH10	SA1	A1
		7115001064		CALL	X1
L	1426	6115001064		SA4	PARSE
		13222		CALL	B5+FNAME1
		10622		CALL	OPEN,(B5+FDB4,B5+BUFF3,FCAP4)
		13222		SB1	B5+FDB4
		10622		ZERO	X2
L	1432	5125000324		FNWORD	B1,2
		63220		ZERO	INITIALIZE FOR WRITING
L	1433	5125000322	WLOOP1	ZERO	WITHOUT CALLING INITW
		63320		FOFA	B1,2
		76710		SA2	B5+OFILE
L	1434	5175000324		SR2	GET THE SCRATCH FILE'S FDB
		6170001436		SA2	IN B2 TO JUGGLE WITH B1
L	1436	76730		SR3	B5+LLNO
		5175000322		Sx7	HIDE LLNO FROM PUTFL
L	1437	7115000000		SA7	X2
L	1441	0317001452		CALL	B1
		76720		CALL	B5+OFILE
L	1442	5175000324		CALL	PUTFL
		6170001444		SA7	WRITE ON THE OUTPUT FILE
L	1444	5115000025		SA7	B3
		0311001447		CALL	B5+LLNO
L	1445	6170001446		CALL	RESTORE LLNO FOR PUTFL
L	1446	5175000025		CALL	TESTL,(B5+CLINE)
		0200001433		N2	X7,FWQ
L	1447	7110000442		Sx7	B2
L	1451	6140000411	BBB	SA7	B5+OFILE
		0400001453		CALL	WRITE LINE ON SCRATCH FILE
L	1452	6140000407		SA1	B5+LAST
L	1453	76710	FWQ	N2	X1,BBB
		5175000324		CALL	GETFL
L	1454	6170001455	CLSP	SA7	B5+LAST
L	1455	76720		JB	WLOOP1
		5175000324		CALL	PUTTL,(BBMESS)
L	1456	0240000000		SB4	CLEAR
				EQ	CLSP
				SR4	MAIN
				Sx7	B1
				SA7	B5+OFILE
				CALL	RESTORE OUTPUT FILE
				Sx7	ENDW
				SA7	CLOSE IT
				JB	B2
					B5+OFILE
					B4

3

SAVE

1

			6170001462	MTOP	SAVE	B1,B7	
				RETURN	MACRO	B1,R2,R3,R4,R5,R6	
L	1462	5115000323			CALL	ENDW	
			63110		SA1	BS+IFILE	
L	1463	5115000324			SUB1	X1	SAVE IFILE
			6170001465		SA1	BS+OFILE	
L	1465	5175000025			CALL	INITR	MAKE OUTPUT THE TNEW IFILE
			7170000001		SA7	BS+LAST	
L	1471	77051			NRINL		
			7200001034		SX0	BS-B1	
L	1472	0310001501			SX0	X0+FDB1	
			5145000337		N7	X0:NOTORIG	
L	1473	21406			SA4	BS+FNAME	
			43006		AX4	6	
			15440		MX0	6	
L	1474	7100000035			BX4	-X0*X4	
			20066		SX0	358	PREFIX A 2 TO NAME
			12404		EX0	54	
L	1475	7115001054			OX4	X0*X4	
L	1500	6115001054			CALL	OPEN,(BS+FDB3,BS+BUFF1,FCAP3)	
L	1501	76110		NOTORIG	SA1	BS+FDB3	
L	1503			MTOP	CALL	INITW,(B1)	
					UBEND		

* PARSE FIGURS OUT WHAT KIND OF SEARCH IS TO BE DONE AND SETS THING UP
* FOR TESTLIN

3

L	1511	6170001512	PARSE	SAVE	B2,B3,B7		
L	1512	0306001511	RETURN	MACRO	R1,R2,R3,R4,R5,R6	SAVE	1
		7256777622	PARSEP	CALL	GETC		
				JP IF	6,BLANKS,PARSEP IGNORE BLANKS		
				EOC	CNT1		
L	1516	7256777757		DIGIT	6,CNT	ASSUME ITS A COUNT	
L	1520	7256777761		JP IF	6,DOTS,CSR	COMPLETE SEARCH	
L	1521	7256777773		JP IF	6,DSIGNS,CHL		
L	1522	7256777760		JP IFN	6,DIVS,ERR	BEGINNING LINE SEARCH	
L	1523	6170001524		CALL	GETC		
L	1524	7256777622	BSR	EOC	ERR	ERROR TO TYPE M/	
L	1530	5120001625		SA2	INSPAT5	GET BLANK LOOP PATTERN	
		10722		Bx7	X2		
L	1531	5175000034		SA7	B5+PAT	STORE AS FIRST TEST	
		5120001624		SA2	INSPAT4	GET TEST INSTRUCTIONS	
L	1532	5130001622		SA3	INSPAT2	GET INCR INSTRUCTIONS	
		6125000035		SA2	B5+PAT+1		
L	1533	7172000002		Sx7	B2+2		
		20736		Lx7	30		
		12737		Bx7	X3+X7		
L	1534	43301		Mx3	1		
		20340		Lx3	32	INITIALIZE INS INC	
L	1535	20636	BSR LOOP	Lx6	30		
		13662		Bx6	X6-X2	PUT -CH INTO INS	
		56620		SA6	B2		
L	1536	6170001537		CALL	GETC		
L	1537	7256777622		EOC	EBSR		
L	1543	5172000001		SA7	B2+1	STORE STANDARD GO-AHEAD WORD	
		6122000002		SA2	B2+2		
L	1544	36773		Lx7	X7+X3	INC INS	
		0200001535		JP	BSR LOOP		
L	1545	5110001623	EBSR	SA1	INSPAT3		
		10611		Bx6	X1		
L	1546	5162000001		SA6	B2+1	STOE TRA TO TRUEX	
		0200001617		JP	CSR	TRA AHEAD TO COMMON EXIT	
L	1547	6170001550	CHL	CALL	GETC		
L	1550	7256777622		EOC	LASTL		
L	1554	0200000433		JP	ERR		
L	1555	7170001660	LASTL	Sx7	TLASTL	SET SW FOR EOF CHECK	
		5175000033		SA7	B5+SW		
L	1556	0200001645		RETURN			
L	1557	6125000034	CSR	SA2	B5+PAT	I-POINTER	
		6130001665		SA3	SALOOPI	J-POINTER	
L	1560	6170001561		CALL	GETC	GET CH IN X6	
L	1561	7256777622		EOC	ERR	JP IF END OF PATTERN	
L	1565	56620	CSR LOOP	SA6	B2	SAVE TEST CH	
		76730		Sx7	B3	MOVE F-LINK	
		5172000001		SA7	B2+1		
L	1566	7173776112	FOP	Sx7	B3-SALOOPI		
		0317001570		N7	X7,SHAZOOM	JP IF NOT TOP	
L	1567	6135000034		SA3	B5+PAT		

L	1570	56230	0200001574	SHAZOOM	JP	INCI	INITIALIZE J-POINTER AGAIN
		13726			SA2	B3	
			0307001573		Bx7	X2-X6	COMPARE CHS
L	1571	5123000001			ZR	X7,CLIMB	JP IF LINKCH=CURCH
			63320		SA2	B3+1	
L	1572	0200001566			SA3	X2	FOLLOW F-LINK
L	1573	6133000002		CLIMB	JP	POP	TRY AGAIN
L	1574	6122000002		INCI	SA3	B3+2	
			6170001576		SA2	B2+2	
L	1576	7256777622			CALL	GETC	
L	1602	0200001565			LOC	ECSR	
L	1603	6135000034		ECSR	JP	CSRLOOP	
			5120001621		SA3	B5+PAT	GET READY TO GO
L	1604	5130001622			SA2	INSPAT1	TEST INSTRUCTIONS
		76030			SA3	INSPAT2	GO-AHEAD INSTRUCTIONS
		20036			SX0	B3	
L	1605	12330			LX0	30	
		43001			Bx3	X3+X0	COMPLETE GO INS
			20040		Nx0	1	
L	1606	0632001613		ECLOOP	LX0	32	SET UP INC FOR GO INS
		56430			GE	B3,B2,FLAST	FINISHED FILL2
		20436			SA4	B3	GET TEST CH
L	1607	13724			LX4	30	
		5143000001			Bx7	X2-X4	PUT NEG CH IN INS
			12774		SA4	B3+1	GET FLINK
L	1610	56730			Bx7	X7+X4	OR IT IN JP PART
		36330			SA7	B3	STORE BACK
			10733		LX3	X3+X0	INC GO INST
L	1611	5173000001			Bx7	X3	
			6133000002		SA7	B3+1	STORE GO-AHEAD WORD
L	1612	0200001566			SA3	B3+2	
L	1613	5110001623		FLAST	JP	ECLOOP	
			10611		SA1	INSPAT3	
L	1614	7105000034			Bx0	X1	
		76120			SX0	B5+PAT	
		37012			SX1	B2	IF PATTERN WAS NULL
L	1615	0310001616			LX0	X1-X2	
			6133000001		N2	X0,NOPX	
L	1616	5163777776		NOPX	SA3	B3+1	FUDGE END LOCATION
L	1617	7160001662		CBSR	SA0	B3-1	STORE JP TO TRUEX
			5165000033		SX6	SALL	
L	1620	0200001645			SA0	B5+SW	SET SWITCH
L	1621	7236777777		INSPAT1	RETURN		
			0313000000		SX3	X5-0	GENERATES 777777 ADDRESS
L	1622	6120000000		INSPAT2	N2	X3-0	
			0200001666		SA2	0	
L	1623	0200001672		INSPAT3	JP	SALOOP	
L	1624	7236777777		INSPAT4	JP	TRUEX	
			0313001673		SX3	X6-0	
L	1625	7236777777		INSPAT5	N2	X3,FALEX	
			0303001666		SX3	X6-BLANKS	
L	1626	7276777757		CNT	ZR	X3,SALOOP	
					SX7	X6-ZEROS	

COMMAND PROCESSOR EDITOR
PARAMETER P A R S E R

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L	1627	6170001630		LL2	CALL	GETC	
L	1630	7256777622			EOC	ECN	
L	1634	7256777757			DIGIT	6*STILT	TEST TO INSURE DIGIT
L	1636	0200000433			JP	ERR	OTHERWISE REPORT ERROR
L	1637	7266777757		STILT	Sx6	X6-ZEROS	
			10577		Bx5	X7	
			20702		Lx7	2	
L	1640	36757			Ix7	X5+X7	
			20701		Lx7	1	
			36776		Ix7	X7+X6	X7=10*X7*X6
L	1641	0200001627			JP	LL2	
L	1642	7170000001		CNT1	Sx7	1	
L	1643	5175000027		ECN	SA7	B5+N	SAVE COUNT
			7170001655		Sx7	COUNT1	
L	1644	5175000033			SA7	B5+SW	
L	1645			PARSE	SUBEND		

3

```

* TESTL RETURNS 1 IF THE APPROPRIATE LINE HAS BEEN REACHED, 0 OTHERW
* IT DOES A JUMP THROUGH SW TO EITHER COUNT OR SALL
TESTL  SAVE B1,B2,B7
RETURN MACRO R1,R2,R3,R4,R5,R6
      S43 B5+SW
      S41 X3
      JP B1 TRA TO COUNT OR SALL
COUNT1 S41 B5+N STORE COUNT
      Sx5 X1-1
      ZR X6,TRUEX
      S46 B5+N STORE COUNT
RETURN 0
      S43 B5+LAST
RETURN X3
      SETGET X1
      S43 B5+NLINE TEST ALWAYS FAILS FOR NULL LINE
      NZ X3,FALEX
SALOOP1 S42 B5+PAT . INITIALIZE PATTERN
      CALL GETC
      JEIF 6,CRS,FALEX
      JB B2 EXECUTE PATTERN
SALOOP2 S42 B5+PAT . BACK PATIERN UP TO START
      JB B2 . RETRY
      RETURN 1
      RETURN 0
      SUBEND
      IFEQ FORBASC+1
      ENDIF

```

SAVE 1

```

L 1654 63130 5135000033
      0210000000
L 1655 5115000027 7261777776
L 1656 0306001672 5165000027
L 1657 7170000000
L 1660 5135000025 73730
L 1662 53110 5135000032
L 1664 0313001673
L 1665 6125000034
L 1666 6170001667
L 1667 7256777522
L 1670 0220000000
L 1671 6125000034 0220000000
L 1672 7170000001
L 1673 76700
L 1674

```

```

TRUEX RETURN
FALEX RETURN
TESTL SUBEND

```

FORBASC+1

GET NEXT CHARACTER

L	1700	0540001711		GETC	NF	B4,B0,BLNS
		23611			Ax6	B1,X1
		15660			Bx6	-X0*X6
L	1701	6111777770			Sa1	B1-7
		0610001703			GB	B1,B0,NOINC
L	1702	5011000001			Sa1	A1+1
		6110000061			Sa1	49
L	1703	7256777604		NOINC	Sx5	X6-ESCS
		0305001705			Nx5	X5,SETB4
L	1704	0270000000			JB	B7
L	1705	23611		SETB4	Ax6	B1,X1
		15660			Bx6	-X0*X6
		63460			GB4	X6
L	1706	6111777770			Sa1	B1-7
		0610001700			GB	B1,B0,GETC
L	1707	5011000001			Sa1	A1+1
		6110000061			Sa1	49
L	1710	0200001700			CB	GETC
L	1711	6144777776		BLNS	Sa4	B4-1
		7160000000			Sx6	BLANKS
L	1712	0270000000			S	B7

TTY OPERATIONS EDITOR
GETLINE

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3

L 1723 7175000306 6160000006
L 1724

* TTY OPERATIONS

GETTL SAVE R1,B6,B7
RETURN MACRO R1,R2,R3,R4,R5,R6
BEAD GTTY,X0,B5+TTYBUFF,B0
SX7 B5+TTYBUFF
GETTL SUBEND

SAVE 1

TTY OPERATIONS EDITOR
PUT LINE

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3

L 1733 5175001031 10711
L 1734 5077000001 7170000240
L 1742 6160000005

PUTTL
RETURN
LINEDES

PUTTL

SAVE
MACRO
STORE
BX7
SA7
SX7
SA7
BEAD
SUBEND

B1,B6,B7
R1,R2,R3,R4,R5,R6
3
X1
B5+LINEDES
160
A7+1
PTTY,X0,B5+LINEDES,B0

SAVE

1

```

*
* HERE BEGINS THE FILE MANIPULATION ROUTINES
*

```

```

400 FDB1 STORE 8
FDB2 STORE 8
FDB3 STORE 8
MBSIZE EQU 256 . FILE BUFFER SIZE = 512 WORDS
FDB4 STORE 8
BUFF1 STORE MBSIZE
BUFF2 STORE MBSIZE
BUFF3 STORE MBSIZE
OPEN SAVE B1,B6,B7
RETURN MACRO R1,R2,R3,R4,R5,R6

```

SAVE

1

3

```

      10622
      10633
L 1752 6160000000
L 1760 56110
      7160000200
      12616
L 1761 54610
      7111777774
L 1762 5221060006
L 1763 7232777377
      0333001765
L 1764 7120000400
L 1765 10622
L 1766 7120777774
      10622
L 1771
      OPEN

```

```

PCBASE X1,2
PCINDEX X1,3
BEAD LOCATE,X4,X1+STUFF,X3
Sx1 B1
Sx6 157
Sx6 X1+X6 . SET SYS STAND. TEXT BIT
Sx1 A1
Sx1 B1-STUFF
Sx3 X1,2
Sx3 X2-MBSIZE
Sx3 X3-SKIP7
Sx2 MBSIZE
Sx2 X1,2
Sx2 -1
PCFA X1,2
PCEND

```

3

SAVE

1

		10611	INITR	SAVE	B7	
			RETURN	MACRO	R1,R2,R3,R4,R5,R6	
L	1776	5165000323		Bx6	X1	
		53210		SA6	B5+IFILE	
L	1777	5231000001		GCINDEX	X1,2	
		5241000007		GBASE	X1,3	
L	2000	5251000006		GBSIZE	X1,4	
		73550		SA5	X1+6	. AVOID READ ON NULL FILE
L	2001	0305002014		Sx5	X5	
		7160000003		Zr	X5,EMPTY	. FILE IS EMPTY
L	2011	10644		CALLSP	(READ,X2,0,X3,X4),EMPTY	
L	2013	0200002015		PCFA	X1,4	
L	2014	43601	EMPTY	Jp	NE	
		53630		Mx6	1	SIMULATE AN EOI
L	2015			SA6	X3	
L	2015	53230	NE	Bx5	0	
		13444		SA2	X3	. LOOK AT FIRST WORD
L	2016	0322002024		Bx4	X4-X4	
		0372002022	RCHECK	PL	X2,OK2	. NOT SPECIAL WORD
L	2017	0342002024		Id	X2,SLOPPY	. SLOPPY SEGMENT
		10644		IR	X2,OK2	. NOT EOI
		7170000001		PWORD	X1,4	
L	2022	73220	SLOPPY	RETURN	1	
		36442		Sx2	X2	
		36332		Ix4	X4+X2	
		53230		Ix3	X3+X2	
L	2023	0400002016		SA2	X3	
L	2024	10644	OK2	EQ	RCHECK	
L	2025	7170000000		PWORD	X1,4	
L	2026		INITR	RETURN	0	
				SUBEND		

3

SAVEI

1

```
*
* GETFL(FDR) MOVE NEXT LINE INTO CLINE. RETURNS 0 IF AOK,
* 1 IF THIS IS THE LAST LINE, 2 IF EOI. SETS NLINE TO 0
*
```

```
GETFL   SAVE      B1,B2,B3,B4,B7
RETURN  MACRO      R1,R2,R3,R4,R5,R6
* B1 = BBASE
* B2 = LOG2 BSIZE
* B3 = NEXT WORD OF CLINE
* B4 = MCLINE
* B7 = JUST FOR SUB-PROC. CALLS
* X2 = NWORD
* X1 = FDB
```

L	2035	5221000002	5115000323	SA1	R5+IFILE	
			5231000001	GNWORD	X1,2	
L	2036	63130		GBASE	X1,3	
		53321		SA1	X3	
			0343002041	SA3	X2+B1	GET FIRST WORD
L	2037	0323002041		IR	X3,OK3	TEST FOR EOI
			7170000002	PL	X3,OK3	
				RETURN	2	
L	2041	10633		Bx6	X3	
		5165000000		SA6	R5+CLINE	STORE 1ST WORD WITHOUT CHK
L	2042	7222000001		SX2	X2+1	X2 IS NWORD
			6135000001	SA3	B5+CLINE+1	
L	2043	6143000023		SA4	B3+SCLINE-1	
			5231000007	GBSIZE	X1,3	
L	2044	7233777776		Sx3	X3-1	
		47333		Cx3	X3	
		63230		SA2	X3	
L	2045	23322		AX3	B2,X2	
		0303002063		ZB	X3,NOTOUT	JMP IF NOT END OF BUFFER
L	2046	5231000005		CCFA	X1,3	
L	2047	10033		Bx0	X3	
		13222		Bx2	X2-X2	NEW NWORD
			5231000001	GBASE	X1,3	
L	2050	5241000007		GBSIZE	X1,4	
			53510	GCINDEX	X1,5	
L	2051	7160000003		CALLSP	(READ,X5,X0,X3,X4),ENDFL	
L	2060	36304		IX3	X0+X4	
		10633		PCFA	X1,3	
L	2063	53321		SA3	X2+B1	GET NEXT WORD
		0333002070		NB	X3,EOL	
L	2064	0634002072		GE	B3,B4,NSL	
		10633		Bx6	X3	NOT END STOREI
		56630		SA6	B3	
L	2065	6133000001		SA3	B3+1	
			7222000001	SX2	X2+1	
L	2066	0200002045		Jp	TRYA	
L	2067	43601		MX6	1	DUMMY UP AND EOI
		53621		SA6	X2+B1	
			0200002063	Jp	NOTOUT	
L	2070	0363002072		Df	X3,NSL	TEST FOR SLOPPY SEG.

EDITOR
FILES READ NEXT LINE

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```

      73330
      36223
L 2071 0200002045
L 2072 10622
L 2073 7160000155
      20661
      56630
L 2074 7163777776
      5165000024
L 2075 13666
      5165000032
L 2076 0343002100
      7170000001
L 2100 7170000000
L 2101
      NSL
      NEOI
      GETFL

```

```

Sx3
1x2
Jp
FNWORD
Sx6
Lx6
Sx6
Sx6
Sx6
ZERO
Sx6
IR
RETURN
RETURN
SUBEND
x3
x2+x3
TRYA
X1.2
CRS
49
83
83-1
85+ECLINE
X6
85+NLIN
X3.NEOI
1
0

```

SAVE NWORD

CR FOR GOOD LUCK

EDITOR FILES INITIALIZE WRITE

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3
L 2107 10611
5165000324
13222
L 2110 10622
13222
L 2111 10622
L 2113 13666
5165000322
L 2114
INITW
RETURN
SAVE
MACRO
BY6
SA6
ZERO
PNWORD
ZERO
POFA
ZERO
SA6
SUBEND
R1,R2,R3,R4,R5,R6
X1
R5+0FILE
X2
X1,2
X2
X1,2
X6
R5+LLNO

SAVE 1

3

```

L 2122 512500032 5115000324
          0302002124
L 2123 0200002140
L 2124 5125000322 7262000001
L 2125 54620 5221000002
L 2126 5231000001 63130
L 2127 6135000000 5135000024
L 2130 63430 5231000007
L 2131 7233777776 47333 63230
L 2132 43004 56330 15330
L 2133 7100000011 20070 12603
L 2134 6170002135
L 2135 6133000001 56330 10633
L 2136 0643002134 10622
L 2140

```

```

*
* PUTFL(FDB) : IF NLINE=0 THEN PUTFL MOVES A LINE TO THE OUT
* PUT FILE.
* REGISTER USE AS IN GETFL
PUTFL SAVE B1,B2,B3,B4,B7
RETURN MACRO B1,R2,R3,R4,R5,R6
          SA1 B5+OFILE
          SA2 B5+NLINE
          Z0 X2,NNULL
          RETURN
          SA2 B5+LLNO
          SX6 X2+1
          SA6 A2
          GAWORD X1,2
          GBASE X1,3
          SB1 X3
          SB3 B5+CLINE
          SA6 B5+ECLINE
          SB4 X3
          GBSIZE X1,3
          SX6 X3-1
          CX3 X3
          CB2 X3
          SX6 4
          GAG B3
          SX6 -X0*X3
          CX0 0
          LX0 56
          SX6 X0*X3
          CALL PWORD
          SB3 B3+1
          SA6 B3
          SX6 X3
          GB B4,B3,SLOOP1
          PWORD X1,2
          SUBEND

```

SAVE

1

. INCREMENT LINE COUNT

SLOOP1

PUTFL

* ENDW(FDB): WRITES AN EOI AND WRITES OUT LAST BUFFER LOAD.
* ALSO DELETES ALL UNNECESSARY TRAILING BLOCKS.

3

SAVE 1

L 2152 5221000002 5115000324
L 2153 63130 5231000001
L 2154 723377776 5231000007
L 2155 43601 47333 63230
L 2157 53410 6170002157
L 2161 7160000004 0302002201
L 2170 0200002201
L 2171 5251000006 0200002161
L 2201 5221000006
L 2202 723277776 47333 63230
L 2203 36352 23323 23323
L 2204 7160000017
L 2210 0316002216 7160000020
L 2215 36332 0200002204
L 2216 6160000001
L 2224

TWA2

NOB2

TOOK2

DNEXT

LEAVE

ENDW

ENDW
RETURN
SAVE
MACRO
SAL
GNWORD
GBBASE
SAL
GBSIZE
SX3
CX3
SR2
MX6
CALL
GCINDEX
GCFA
SX3
ZR
CALLSP
JB
CBBLK
JB
GBBSIZE
SX3
CX3
GBBS
LX3
AX3
LX3
CALLSP
NZ
CALLSP
LX3
JB
BEAD
SUBEND
B1,B2,B6,B7
R1,R2,R3,R4,R5,R6
B5+OFILE
X1,2
X1,3
X3
X1,3
X3-1
X3
X3
1
PWORD
X1,4
X1,5
B1
X2,TOOK2
(WRITE,X4,X5,X3,X2),NOB2
TOOK2
4,5,X1
TWA2
X1,2
X2-1
X3
X3
X5+X2
B2,X3
B2,X3
(PROBE,X4,X3) CHECK FOR TRAILING BLOCK
X6,LEAVE
(OBLK,X4,X3) DESTROY IT
X3+X2
DNEXT
UPDATE,X6,X1+STUFF,X4 UPDATE SYSTEXT BIT

* PWORD IS USED BY PUTFL AND ENDW TO SEND WORDS TO
* THE OUTPUT FILE
* X1=FDB
* X2=NWORD
* B1=BBASE
* X7=THE WORD TO BE PUT
* PWORD CLOBBERS X3,X4,X5 AND UPDATES X2 PROPERLY

3

		23322		PWORD	SAVE	B7,X1		
				RETURN	MACRO	R1,R2,R3,R4,R5,R6		SAVEI
L	2233	0303002263			AX3	B2,X2		
		5165002520			ZR	X3,NOWR		
L	2234	5221000005			SA6	B5+TEMP		. SAVE WORD TO OUTPUT
L	2235	5231000001			GCFA	X1,2		
		5241000007			GBBASE	X1,3		
L	2236	53510			GBSIZE	X1,4		
L	2237	7160000004	TWA		GCINDEX	X1,5		
L	2246	0200002257			CALLSP	(WRITE,X5,X2,X3,X4),NOB		
L	2247	5221000006			JP	TOOK		
		0200002237	NOB		CRBLK	S,2,X1		
L	2257	36224			JP	TWA		
		10622	TOOK		IX2	X2+X4		
		13222			PCFA	X1,2		
		5165002520			ZERO	X2		
L	2262	10655			SA5	B5+TEMP		
L	2263	53621			BA6	X5		
		7222000001	NOWR		SA6	X2+B1		
					SA2	X2+1		
L	2264				SUBEND			
			PWORD		STORE	1		
			TEMP					

3

GBCDN SAVE R2,B3,B7
RETURN MACRO R1,R2,R3,R4,R5,R6

SAVE 1

* THE FILE NAME WILL BE LEFT IN X7 AND THE USERNAME IN X4

```

L 2273 6170002274 7256777763
L 2274 7256777622
L 2275 7256777763
L 2276 6120000066 6130000022
L 2277 13444 13777
L 2300 5226000131 22222 12772
L 2301 6170002302
L 2302 7256777622
L 2306 7256777763
L 2307 6122777771 0623002300
L 2310 6170002311 NEWUSER1
L 2311 7256777622
L 2315 7256777763
L 2316 6170002317 NEWUSER
L 2317 7256777622
L 2323 7256777763
L 2324 6120000066 6130000022
L 2325 5226000131 22222 12442
L 2326 6170002327
L 2327 7256777622
L 2333 7256777763
L 2334 6122777771 0623002325
L 2335 0200002340
L 2336 74610 27616 5165000343
L 2337 7160000014
L 2340 0317002342 GBCDND
L 2341 10755 5155000337
L 2342 GBCDN SUBEND

```

JpIFN 6.COMMAS.ERR
 CALL GETC
 JpIF 6.CRS.ERR
 JpIF 6.COMMAS.NEWUSER
 Sx2 54
 Sx3 18
 Bx4 X4-X4 . ZERO X4
 Bx7 X7-X7 . AND X7
 Sx2 X6+TTYCDC
 Lx2 R2,X2
 Bx7 X7+X2
 CALL GETC
 EOC GBCDND
 JpIF 6.COMMAS.NEWUSER
 Sx2 R2-6
 GE R2,B3,CHLOOP
 CALL GETC . EAT EXTRA CHARACTERS IF YOU FALL
 EOC GBCDND THROUGH
 JpIFN 6.COMMAS.NEWUSER1
 CALL GETC
 EOC GBCDND
 JpIF 6.COMMAS.DUPA
 Sx2 54
 Sx3 18
 Sx2 X4+TTYCDC
 Lx2 R2,X2
 Bx4 X4+X2
 CALL GETC
 EOC GBCDND
 JpIF 6.COMMAS.DUPA
 Sx2 R2-6
 GE R2,B3,CHLOOP1
 Jp GBCDND
 Sx6 A1 HIDE CH STREAM FOR WRITEF
 Px6 B1,X6
 Sx6 B5+IPS
 Sx6 COMMAS
 Nz X7,E.GBCDN
 Sx5 B5+FNAME
 Bx7 X5

VARIABLE STORAGE

L 2346
L 2346
0

E D I T O R

2524 CODEL BSS 0
VCOUNT EQU VCOUNTR
STORAGE BSS VCOUNTR
END

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37355 STORAGE USED
6600 ASSEMBLY

4753 STATEMENTS
27.207 SECONDS

607 SYMBOLS
2022 REFERENCES

000184 INVENTED SYMBOLS

1 ERROR IN EDITOR

D TYPE ERROR
OCCURRED ON PAGES

DOUBLY DEFINED SYMBOL. THE FIRST DEFINITION HOLDS
5

1 TYPE ERROR
OCCURRED ON PAGES

LOCATION SYMBOL BAD. SYMBOL NOT DEFINED.
5

3 TYPE ERROR
OCCURRED ON PAGES

DUPLICATE MACRO DEFINITION. NEW ONE OVERRIDES.

5,	29,	33,	34,	37,	39,	40,	41,	42,
43,	45,	46,	47,	48,	49,			

E D I T O R

SYMBOLIC REFERENCE TABLE.

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ALLOUT	765	23/06	23/10 L						
AMPRS	6	12/01 D							
ANYM	1000	26/07 D	26/51 S	28/26	28/28 S	29/03			
APPEND1	771	24/03 L	24/44						
AOS	0	12/08 D							
AS	41	11/01 D	16/44	16/45	16/46	17/18	22/23	22/24	29/08
BACK	1152	27/24	27/28 L						
BACKUP	732	16/03	22/01 L						
BBB	1447	32/40	32/44 L						
BBNESS	442	16/07	16/10 L	25/07	32/44				
BCODEIF	56	3/21	4/10 L						
BEAD	1	3/47 D	8/18						
BEADLOC	331	8/18 L	17/31	17/53	19/05	19/12	31/33	41/17	
		14/30	17/35	18/01	19/06	19/13	39/05	47/36	
		14/33	17/37	18/02	19/07	30/27	40/09		
BEGCODE	31	3/11	3/13	3/22	3/23	3/27	4/16 L		
BERMESS	441	16/03	16/09 L						
BKERR	746	22/08	22/21 L						
BKLOOP	737	22/10 L	22/19						
BLANKS	0	11/45 D	16/42	16/46	21/32	24/28	29/48	31/24	
		16/28	16/43	17/17	22/23	29/07	30/08	35/51	
		16/36	16/45	17/18	22/24	29/47	30/09	38/20	
BLNLOOP	1102	26/22 L	26/23						
BLNS	1711	38/01	38/19 L						
BOTH10	1423	32/11	32/18 L						
BOTTOM	436	16/07 L	20/06	28/51	30/34				
BPM	1007	26/14 D	27/18 S	27/28	27/36				
BSR	1524	34/13 L							
BSRLOOP	1535	34/25 L	34/33						
BTI	30	13/19 D							
BUFF1	1074	14/53	33/21	41/09 D					
BUFF2	1474	15/22	41/10 D						
BUFF3	2074	31/09	32/20	41/11 D					
B111	1375	31/23	31/28 L						
B200	2273	49/07 L							
BS	42	11/02 D	16/02	16/10	16/37	16/47	22/24	29/48	
CBL	1266	26/28	29/42 L						
CBLK	16	3/51 D	47/22	48/20					
CBS	1021	24/18	24/26 L						
CBSR	1617	34/37	35/41 L						
CHA	1214	28/32 L							
CHANGE	1076	15/51	26/01 L						
CHL	1547	34/11	34/38 L						
CHLOOP	2300	49/14 L	49/21						
CHLOOP1	2325	49/30 L	49/37						
CLEAR	411	15/31 L	16/08	17/16	22/22	29/46	32/45		
		16/04	16/27	21/31	29/06	31/22			
CLIMB	1573	35/04	35/08 L						
CLINE	0	13/14 D	16/26	21/27	25/33 S	28/45	33/10 S	46/17	
		15/14 S	20/02	24/16	27/01	30/02	33/10		
		15/14	20/03	25/03	28/23	30/11	43/23 S		
		16/26 S	21/16	25/33 S	28/32	32/34	43/25		
CLSP	1453	32/46	32/48 L						

EDITOR SYMBOLIC REFERENCE TABLE.

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PAGE 53

CNT	1626	34/09	35/53 L						
CNT1	1642	34/08	34/08	36/12 L					
CODEL	2346	3/23	50/01 L						
COLONS	32	11/51 D							
COMMAS	14	11/46 D							
		31/04	49/06	49/09	49/24	49/35			
COUNT1	1655	22/03	36/14	49/19	49/27	49/42			
CRLINE	360	14/46 L	15/14	37/08 L					
CRS	155	12/04 D	16/37	16/26	33/10				
		14/04	16/45	21/34	25/39	28/14	31/26	34/47	49/18
		14/46	16/47	22/24	26/24	29/09	32/02	35/11	49/23
		16/09	17/07	23/02	26/41	29/48	34/07	36/02	49/26
		16/10	17/20	24/02	26/48	30/10	34/13	37/20	49/34
		16/30	19/02	24/08	27/06	30/18	34/29	44/05	
		34/10	34/44 L	24/21	27/21	31/02	34/39	49/08	
CSR	1557	34/48 L	35/12						
CSRLOOP	1565	11/03 D	15/50	16/29	16/35	17/19	22/24	29/07	
CS	43	3/53 D	47/32						
DBLK	20	15/50	25/01 L						
DELETE	1050	8/21 D	17/36	17/53	19/06	19/12			
DELFILE	2	25/33	25/33	25/38 L					
DELMESS	1074	11/40 D	34/11						
DIVS	17	25/03 L	25/16						
DLOOP	1052	47/30 L	47/34						
DNEXT	2204	17/42	17/49 L						
DONTPLAY	573	27/01 L	29/02						
DOSUBST	1130	11/47 D	34/09						
DOTS	16	12/03 D							
DQUOTES	2	11/43 D	34/10						
DSIGNS	4	49/28	49/36	49/39 L					
DUPA	2336	11/04 D	15/49	16/29	16/46	25/38	30/10		
DS	44	14/04	16/28	16/44	21/34	30/08			
		34/30	34/30	34/34 L					
EBSR	1545	13/15 D	16/26 S	25/33 S	28/33	33/10 S	46/18		
ECLINE	24	14/14 S	24/24 S	28/19 S	28/44	44/09 S			
		35/21 L	35/32						
ECLOOP	1606	36/03	36/03	36/13 L					
ECN	1643	35/12	35/12	35/13 L					
ECSR	1603	15/53	29/44 L						
EDIT	1275	3/09	14/07 L						
EDITOR	337	14/22	14/47 L						
EDITOR1	361	14/40	14/44	14/50 L					
EDITOR2	363	30/02 L	30/38						
EDLOOP	1276	31/21	31/24 L						
EFMESS	1372	11/35 D							
EIGHTS	30	42/10	42/12	42/14 L					
EMPTY	2014	31/14	31/21 L						
EMPTYER	1367	43/40	43/50 L						
ENDFL	2067	32/51	33/04	47/05 L					
ENDW	2146	17/23	17/27 L						
ENDS	536	43/43	43/53 L						
EOL	2070	11/44 D							
EQSIGN\$	35								

EDITOR SYMBOLIC REFERENCE TABLE.

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ERR	433	16/03 L	23/03	26/41	29/11	31/05	34/12	34/40	36/04
		19/03	24/03	26/45	31/03	32/03	34/14	34/48	49/07
		22/04	26/25	26/48	31/03	32/03	34/14	34/48	49/09
ESCS	173	11/48 D	24/36	29/32	38/08				
ETL	31	13/20 D							
EXIT	472	16/34 L	16/41						
ES	45	11/05 D	16/28	16/37	16/45	17/18	29/09	30/09	31/26
		14/04	16/29	16/42	16/46	17/19	29/47	30/10	
		15/52	16/35	16/43	17/17	25/38	30/08	31/24	
E.ENDW	2224	47/36 L							
E.GBCDN	2342	49/43	49/46 L						
E.GETFL	2101	43/22	44/14	44/15	44/15 L				
E.GETTL	1724	39/06 L							
E.INITR	2026	42/24	42/31	42/31 L					
E.INITW	2114	45/11 L							
E.MTOP	1503	33/23 L							
E.MWBC	1044	24/25	24/41 L						
E.OPEN	1771	41/29 L							
E.PARSE	1645	34/43	35/43	36/16 L					
E.PUTCB	1274	29/49 L							
E.PUTFL	2140	46/10	46/36 L						
E.PUTTL	1742	40/09 L							
E.PWORD	2264	48/28 L							
E.TESTL	1674	37/13	37/15	37/25	37/26	37/26 L			
FALEX	1573	35/50	37/17	37/21	37/25 L				
FCAP1	26	4/06 D	14/26	14/53	17/53	18/01	19/05		
FCAP2	27	4/07 D	15/22	19/06	19/07				
FCAP3	30	4/08 D	19/12	19/13	33/21				
FCAP4	31	4/09 D	31/09	31/33	32/20				
FDB1	1054	14/25	14/53	17/29	17/53	19/03	19/08	41/04 D	
		14/52	17/28	17/31	18/01	19/05	33/11		
FDB2	1044	15/21	15/22	19/06	19/07	41/05 D			
FDB3	1054	19/12	19/13	33/20	33/21	41/05 D			
FDB4	1064	31/08	31/15	31/33	32/19	32/20	41/08 D		
FILE	7	3/50 D							
FILESF	342	14/15 S	14/16 D	17/13					
FINDE	1065	25/04	25/10	25/29 L					
FINISH	513	15/52	17/01 L						
FINPUT	1174	28/08 L	28/22						
FIVES	25	11/32 D							
FLAST	1513	35/21	35/33 L						
FMATCH	1266	27/22	28/21 L						
FNAME	337	14/13 D	14/49 S	15/14	17/37	33/13			
		14/14 S	14/51	17/09 S	31/31	49/44			
FNAME1	1012	32/04 S	32/05 D	32/18					
FOP	1566	34/31 L	35/07						
FORBASC	0	3/02 D							
FOURS	24	11/31 D							
FRETURN	22	4/02 D							
FRSTCAL	7	4/12 D							
FWQ	1452	32/35	32/47 L						
FZERO	443	14/09	16/13 L						
FS	46	11/06 D	15/51	16/42	17/17	21/33	22/23	31/25	

EDITOR SYMBOLIC REFERENCE TABLE.

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GBCDN	2267	17/09	31/04	32/04	49/03 L				
GBCDND	2340	49/19	49/24	49/27	49/35	49/38			
		49/19	49/24	49/27	49/35	49/43 L			
GETC	1700	15/44	24/08	26/23	31/02	34/39	38/01 L	49/23	
		17/07	24/18	26/41	32/02	34/47	38/15	49/26	
		19/02	24/27	26/48	34/06	35/11	38/18	49/34	
		23/02	24/33	27/04	34/13	36/02	49/08		
		24/02	26/19	30/16	34/29	37/20	49/18		
GETFL	2030	17/25	21/11	22/15	25/15	30/37	32/42		
		20/09	21/25	23/08	29/01	31/17	43/07 L		
GETTL	1713	15/35	24/05	39/04 L					
GLITCH	716	21/05	21/19 L						
GLOBAL	1002	26/09 D	26/17 S	26/21 S	26/44	28/06			
GL1	721	21/20	21/22	21/24 L					
GL2	713	21/16 L	21/26						
GTTY	6	8/23 D	39/04						
GTS	36	12/06 D							
GS	47	11/07 D	16/47	17/17	26/19	29/09	29/48		
HELLO	336	14/04 L	14/50						
HS	50	11/08 D	29/07						
IFILE	323	13/26 D	17/38	17/49	31/09	33/04	43/14		
		16/20	17/43	19/07	31/30 S	42/04 S			
II	2	14/50 D	16/33 D	25/03	32/20	37/25 D	43/07 D	47/20 D	48/10 D
		14/50	16/33	25/07 D	32/20 D	37/25	43/21 D	47/20 S	48/17 D
		14/52 D	16/34 D	25/07	32/20	39/04 D	43/21	47/20 D	48/18 S
		14/52	16/35 S	26/23 D	32/34 D	39/04 D	43/39 D	47/20 S	48/18 D
		14/53 D	16/39 D	28/23	32/34	40/03 D	43/40 S	47/20 D	48/18 S
		14/53	16/39	29/05 D	32/44 D	40/03 D	43/40 D	47/20 S	48/18 D
		14/53 D	16/40 D	29/05	32/44	41/14 D	43/40 S	47/20 D	48/18 S
		14/53	16/40	29/45 D	33/03 D	41/14 D	43/40 D	47/20 S	48/18 D
		14/53 D	17/15 D	29/45	33/20 D	42/03 D	43/40 S	47/22 D	48/18 S
		14/53	17/15	30/02 D	33/20	42/11 D	43/40 D	47/22 S	48/18 D
		15/21 D	18/03 D	30/02	33/21 D	42/12 S	43/40 S	47/22 D	48/18 S
		15/21	18/04 S	30/06 D	33/21	42/12 D	43/40 D	47/22 S	48/20 D
		15/22 D	19/15 D	30/06	33/21 D	42/12 S	43/40 S	47/22 D	48/20 S
		15/22	19/16 S	31/08 D	33/21	42/12 D	44/13 D	47/22 S	48/20 D
		15/22 D	20/02 D	31/08	33/22 D	42/12 S	44/13	47/30 D	48/20 S
		15/22	20/02	31/09 D	33/22	42/12 D	44/14 D	47/31 S	48/20 D
		15/22 D	20/03 D	31/09	34/05 D	42/12 S	44/14	47/31 D	48/20 S
		15/22	20/03	31/09 D	34/05 D	42/12 D	46/07 D	47/31 S	49/03 D
		16/03 D	21/16 D	31/09	37/05 D	42/12 S	46/07 D	47/31 D	49/03 D
		16/03	21/16	31/13 D	37/05 D	42/23 D	46/07 D	47/31 S	
		16/07 D	21/27 D	31/13	37/12 D	42/23	46/07 D	47/32 D	
		16/07	21/27	31/21 D	37/12	42/30 D	47/05 D	47/33 S	
		16/26 D	22/21 D	31/21	37/14 D	42/30	47/05 D	47/33 D	
		16/26	22/21	32/19 D	37/14	43/07 D	47/05 D	47/33 S	
		16/32 D	24/15 D	32/19	37/24 D	43/07 D	47/19 D	47/33 D	
		16/32	25/03 D	32/20 D	37/24	43/07 D	47/20 S	47/33 S	
INCI	1574	35/01	35/09 L						
INIR	1775	15/01	16/24	31/14	33/08	42/03 L			
INITW	2107	15/23	33/23	45/03 L					
INSERT	767	15/48	24/01 L						
INSPAT1	1621	35/14	35/44 L						

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INSPAT2	1622	34/18	35/15	35/46 L						
INSPAT3	1623	34/34	35/33	35/48 L						
INSPAT4	1624	34/17	35/49 L							
INSPAT5	1625	34/14	35/51 L							
INTERPT	10	4/13 D								
IPS	343	15/23 D	15/33 S	25/09 S	32/12	34/30 S	35/12 S	49/24 S	49/41 S	
		15/25 S	15/40 S	31/03 S	34/08 S	34/40 S	36/03 S	49/27 S		
		15/26	23/03 S	32/03 S	34/14 S	34/48 S	49/19 S	49/35 S		
I1	7	37/12 D	37/14	37/25 D	42/23	43/21 D	44/13			
		37/12	37/24 D	37/25	42/30 D	43/21	44/14 D			
		37/14 D	37/24	42/23 D	42/30	44/13 D	44/14			
IS	51	11/09 D	15/47	15/37	16/46	17/17	29/47	30/09		
		14/04	16/28	16/42	16/47	17/19	29/48	31/26		
J	1006	26/13 D	27/39 S	28/02						
JS	52	11/10 D								
KS	53	11/11 D	22/24	30/09						
LAST	25	13/16 D	17/25 S	21/11 S	22/15 S	25/15 S	30/37 S	37/13		
		15/03 S	20/05	21/19	23/05	28/50	32/39			
		16/24 S	20/09 S	21/25 S	23/08 S	29/01 S	32/42 S			
		17/22	21/07	22/11	25/05	30/33	33/08 S			
LASTL	1555	34/40	34/40	34/41 L						
LBS	73	11/49 D								
LEAVE	2216	47/31	47/35 L							
LINEBIG	1272	29/45	29/47 L							
LINEDES	1031	30/21 S	30/23 S	30/25 S	30/27	40/03 D	40/05 S	40/09		
LJ	1005	26/12 D	27/15 S	27/34	28/05 S	28/08				
LLNO	322	13/25 D	21/02	22/06	32/27	45/10 S				
		16/22 S	21/12	22/16	32/33 S	46/11				
LL2	1627	36/01 L	36/11							
LNP	1004	26/11 D	26/48 S	27/48						
LOCATE	0	8/19 D	17/52	41/16						
LOP	1003	26/10 D	26/41 S	27/12						
LPS	10	11/41 D								
LSKED	1304	30/06	30/08 L							
LTOOBIG	1267	29/34	29/36	29/40	29/41	29/44 L				
LTS	34	12/05 D								
LVSUB	1230	28/49	29/03 L							
L1	1141	27/12 L	28/07							
L2	1143	27/16 L	27/30							
L3	1145	27/19 L	27/27							
L4	1161	27/42 L	27/46							
L5	1166	27/50 L	28/01							
L6	1176	28/12 L	28/16							
L7	1216	28/37 L	28/43							
L8	1202	28/15	28/17 L							
LS	54	11/12 D	16/42	17/19	25/38	30/09				
		16/37	17/18	17/20	29/47	31/26				
MAIN	407	15/26 L	21/17	22/20	24/09	29/04	31/27			
		20/04	21/28	23/11	25/36	30/32	32/47			
MATCH	1001	26/08 D	27/10 S	27/31	27/33 S	28/21	28/25			
MBSIZE	400	41/07 D	41/09	41/10	41/11	41/23	41/25			
MGIVE	526	17/15	17/17 L							
MINUS%	15	11/38 D								

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MLOOP	705	21/06 L	21/18						
MLOOP1	1006	24/17 L	24/22						
MOVE	702	15/46	21/01 L						
MTOP	1457	17/28	21/10	21/22	22/14	23/11	33/03 L		
MT1	1027	24/27	24/31 L						
MWBC	1003	24/14	24/15 L	30/31					
MS	55	11/13 D	15/45	16/10	16/43	17/18	31/24		
N	27	13/18 D	22/05	36/13 S	37/08	37/11 S			
NBEND	742	22/12	22/14 L						
NBOT	1061	25/06	25/11 L						
NCLINE	511	26/05 D	27/40	28/35	30/12	30/29			
		27/07	28/10	28/45	30/20				
NCMESS	1234	29/05	29/07 L						
NE	2015	42/13	42/16 L						
NEOI	2100	44/12	44/14 L						
NEWP	427	26/04 D	26/46	27/47					
NEWUSER	2316	49/10	49/20	49/25 L					
NEWUSER1	2310	49/22 L	49/25						
NFMESS	730	21/29	21/32 L						
NINES	31	11/36 D							
NLINE	32	13/21 D	16/26 S	24/43 S	25/29	26/52	33/10 S	44/11 S	
		15/14 S	21/04	25/11	25/33 S	30/04	37/16	46/08	
NNULL	2124	46/09	46/11 L						
NOB	2247	48/18	48/19 L						
NOB2	2171	47/20	47/21 L						
NOBEL	564	17/37 L							
NOFX	1616	35/38	35/40 L						
NOINC	1703	38/05	38/08 L						
NOMOVE	1221	28/39	28/44 L						
NOMOVE1	1223	28/29	28/48 L						
NORED	1307	30/05	30/11 L						
NOTEND	710	21/08	21/10 L						
NOTFOUN	723	21/15	21/27 L						
NOTGL	1103	26/20	26/23 L						
NOTHF	665	19/10	19/13 L						
NOTORIG	1501	33/12	33/22 L						
NOTOUT	2063	43/32	43/42 L	43/52					
NOTS	136	12/09 D							
NOWR	2263	48/11	48/26 L						
NO.RECOV	486	16/16	16/32 L						
NSL	2072	43/44	43/53	44/04 L					
NTLINE	412	15/27	15/34 L						
NTSYSTXT	500	14/43	16/39 L						
NULL	357	14/45 L	14/47						
NXTLINE	1046	24/14	24/42 L						
NXTWRD	26	13/17 D							
NS	56	11/14 O	16/42	16/47	21/32	29/07	29/47		
		16/36	16/44	17/18	21/34	29/08	30/09		
OFFILE	324	13/27 D	17/31	32/25	32/37 S	32/52 S	45/04 S	47/05	
		16/14	17/35	32/30 S	32/49 S	33/06	46/07		
OKP	1116	26/43	26/46 L						
OK2	2024	42/19	42/21	42/29 L					
OK3	2041	43/19	43/20	43/22 L					

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OLDP	345	26/03 D	26/26	26/42	27/16				
ONEB	1254	29/31	29/38 L						
ONES	21	11/28 D							
OPEN	1746	14/53	15/22	31/09	32/20	33/21	41/14 L		
OUTSUB	1207	26/53	28/20	28/23 L					
OS	57	11/15 D	16/28	16/35	16/42	16/47	21/33	29/07	29/48
		16/10	16/29	16/36	16/46	21/32	22/23	29/47	30/08
PARAM1	6	4/11 D							
PARSE	1506	20/02	21/02	22/02	25/02	26/50	30/02	32/18	34/05 L
PARSEP	1511	34/05 L	34/06						
PAT	34	13/23 D	34/19	34/53	35/35	37/22			
		34/16 S	34/44	35/13	37/18				
PC	414	15/30	15/37 L						
PCSS	5	11/53 D							
PLOOP	671	20/02 L	20/10						
PLUS	13	11/37 D							
PPL	1313	30/14 L	30/19						
PRINT1	670	15/45	20/01 L						
PROBE	17	3/52 D	47/30						
PSIZE	62	26/02 D	26/03	26/04	26/40	26/47			
PTOOBIG	1236	26/41	26/48	29/10 L					
PTY	5	8/22 D	40/06						
PUTCB	1237	27/45	27/53	28/14	29/28 L				
PUTFL	2115	17/22	21/07	23/05	28/53	31/16	32/39		
		20/08	22/11	24/12	30/36	32/32	46/07 L		
		14/51	16/27	16/40	20/03	25/08	30/07	40/03 L	
		16/04	16/33	16/41	21/31	29/06	31/22		
		16/08	16/34	17/16	22/22	29/46	32/46		
PWORD	2231	46/31	47/15	48/10 L					
PS	60	11/16 D	15/44	16/36	17/19	30/08	30/10	31/24	
QMARKS	37	12/02 D	16/09						
QUIT	622	15/49	19/01 L						
QUOTES	7	11/52 D							
QS	61	11/17 D	15/46						
RBS	75	11/50 D							
RCHECK	2016	42/19 L	42/28						
READ	3	3/48 D	42/11	43/39					
READF	1345	16/01	31/01 L						
REALIF	1011	31/11 D	31/12 S	31/28					
REALPA	1420	32/09	32/12 L						
RECOVER	444	14/11	16/14 L						
RECOVMS	463	16/26	16/28 L						
RECOVN	475	16/32	16/35 L						
RESN	1010	24/19 L	24/30	24/40					
RESTOR	24	4/04 D	8/26						
RESTORI	1374	31/20	31/27 L						
RESTORL	334	8/26 L	17/35	18/01	19/06	19/13	39/05	47/36	
		14/35	17/37	18/02	19/07	30/27	40/09		
		17/31	17/53	19/05	19/12	31/33	41/17		
RESUM	1033	24/33	24/36 L						
RETEST	1010	26/15 D	28/24 S	28/48	30/03 S	30/31			
RETPAR	25	4/05 D							
RFLOOP	1364	31/15 L	31/19						

ROT	1030	24/32 L	24/35																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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TFBMESS	751	22/21	22/23 L				
THREES	23	11/30 D					
TLASTL	1660	32/09	34/41	37/13 L			
TLOOP	761	23/03	23/03	23/04 L	23/09		
TOOK	2257	48/18	48/21 L				
TOOK2	2201	47/18	47/20	47/23 L			
TOP	753	15/47	23/19 L				
TRUEX	1672	35/48	37/10	37/24 L			
TRYA	2045	43/31 L	43/49	44/03			
TSOP	1340	30/07	30/31 L				
TTYBUFF	306	13/24 D	39/05	39/05			
TTYCDC	131	49/14	49/30				
TWA	2237	48/17 L	48/20				
TWA2	2161	47/19 L	47/22				
TWOS	22	11/29 D					
TS	64	11/20 D	16/10	16/42	16/45	17/19	25/38
		14/04	16/28	16/43	16/46	21/32	29/47
		15/46	16/36	16/44	16/47	22/23	31/24
UNAME	340	14/16 D	17/11 S	17/40	19/05	19/13	32/07 S 47/36
		14/20 S	17/31	17/53	19/06	30/27	39/05
		15/02 S	17/35	18/01	19/07	31/06 S	40/09
		17/03 S	17/37	18/02	19/12	31/33	41/17
UNAME2	341	14/17 D	14/21 S	17/01			
UPDATE	1	8/20 D	17/30	18/01	19/05	31/32	
		14/32	17/34	19/04	19/11	47/35	
US	65	11/21 D	21/34	30/08			
VCOUNT	2524	3/08	3/11	3/29	50/02 D	50/03	

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VCOUNT# 2524

VS 66
WLOOP1 1433
WRITE 4
WRITEF 1406
WS 67
XLINE 535
XPack 11
XS 70
YS 71
ZEROS 20
ZS 72

13/12 D	13/23	15/23	26/11	34/05 D	41/04 D	42/03	47/05 D
13/14	13/24	24/15	26/12	34/05	41/04	43/07	47/05
13/14 D	13/24 D	24/15 D	26/12 D	37/05	41/05	43/07 D	47/05 D
13/14	13/24	24/15	26/12	37/05 D	41/05 D	43/07	47/05
13/15	13/25	26/03	26/13	37/05	41/05	43/07 D	47/05
13/15 D	13/25 D	26/03 D	26/13 D	37/05 D	41/06	43/07	47/05 D
13/15	13/25	26/03	26/13	37/05	41/06 D	43/07	47/05
13/16	13/26	26/04	26/14	37/05	41/06	43/07 D	47/05
13/16 D	13/26 D	26/04 D	26/14 D	37/05 D	41/08	43/07	47/05 D
13/16	13/26	26/04	26/14	37/05	41/08 D	43/07	47/05
13/17	13/27	26/05	26/15	39/04	41/08	43/07 D	48/10
13/17 D	13/27 D	26/05 D	26/15 D	39/04 D	41/09	43/07	48/10 D
13/17	13/27	26/05	26/15	39/04	41/09 D	43/07	48/10
13/18	13/28	26/06	31/11	39/04 D	41/09	43/07 D	48/10 D
13/18 D	13/28 D	26/06 D	31/11 D	39/04	41/10	43/07	48/10
13/18	13/28	26/06	31/11	39/04	41/10 D	46/07	48/29
13/19	14/13	26/07	32/05	39/04 D	41/10	46/07 D	48/29 D
13/19 D	14/13 D	26/07 D	32/05 D	39/04	41/11	46/07	48/29
13/19	14/13	26/07	32/05	40/03	41/11 D	46/07 D	49/03
13/20	14/16	26/08	33/03	40/03 D	41/11	46/07	49/03 D
13/20 D	14/16 D	26/08 D	33/03 D	40/03	41/14	46/07	49/03
13/20	14/16	26/08	33/03	40/03 D	41/14 D	46/07 D	49/03 D
13/21	14/17	26/09	33/03 D	40/03	41/14	46/07	49/03
13/21 D	14/17 D	26/09 D	33/03	40/03	41/14 D	46/07	49/03
13/21	14/17	26/09	34/05	40/03 D	41/14	46/07 D	49/03 D
13/22	14/18	26/10	34/05 D	40/03	41/14	46/07	49/03
13/22 D	14/18 D	26/10 D	34/05	40/03	41/14 D	46/07	50/02
13/22	14/18	26/10	34/05 D	40/03 D	41/14	46/07 D	
13/23	15/23	26/11	34/05	40/03	42/03	46/07	
13/23 D	15/23 D	26/11 D	34/05	41/04	42/03 D	47/05	
11/22 D	16/29	16/35	17/17				
32/27 L	32/43						
3/49 D	47/19	48/17					
16/02	32/01 L						
11/23 D	16/01						
26/06 D	27/02	27/11					
4/14 D	4/15	8/25	8/27				
11/24 D	16/45	17/19					
11/25 D	16/35	16/43	17/20	31/24			
11/27 D	34/06	35/53	36/03	36/05			
11/26 D							