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*8700G
8118 JOT: JOT RESCUE? 0 TEXT-SAFE ! EMPTY-BUFFERS LOAD-TEXT TEXT-TOP CACOPH 1 M
ODE ! 0 LEVEL ! ACTIVE ?STACK ?KEY 0= 0BRANCH 0014 START-ECHO ?KEY 0= 0BRANCH 00
08 ECHO BRANCH FFF4 END-ECHO KEY DUP LIT 0060 < 0BRANCH 000E DUP KEYT @ EXECUTE
BRANCH FFCC HOME          (".") 07  ASCII " . (".") 10 FROM KEYBOARD!? " 0
EXIT-KEY ;S

806D RESCUE?: RESCUE? TEXT-SAFE @ 0= 0BRANCH 0095 HOME (".") 44 JOT WAS ABORTED B
EFORE CHANGES COULD BE SAVED.  DO YOU WANT TO SAVE?" KEY CR LIT 0059 = 0BRANCH 0
036 (".") 27 INSERT THE JOT TEXT DISK YOU WERE USING" CR &HIT RESCUE BRANCH 0004
EMPTY-BUFFERS 1          TEXT-SAFE ! ;S

8017 CAPS-MODE-KEY: CAPS-MODE-KEY SCREMIT @ 2+ SDUP LITW 63A8 = EH? 0BRANCH 000
A LITW 63BC BRANCH 001C LITW 63BC = EH? 0BRANCH 000A LITW 0EEE BRANCH 0008 2DROP
LITW 63A8 CFA SCREMIT ! DROP DEPART TEXT-TOP ;S

7F9C NEW-DISK: NEW-DISK Y/NQUERY FREE-ALL CR (".") 20 IS THIS A 2-DRIVE SYSTEM? (
Y/N):" KEY DUP EMIT CR LIT 0059 = DUP 0= 0BRANCH 001F (".") 18 REMOVE THE CURRENT
DISK " &HIT B/DSK * DUP BLK1 0 ROT COPY-SOME MAKE-DISK ;S

7F66 MAKE-DISK: MAKE-DISK END-MARK DUP >TOP >BOT DUP 0BRANCH 0012 TOP TOS-BLK C
@ >#2 BOTTOM TOS-BLK C@ >#2 INDX + WRITE-INDEX FLUSH ;S

7F4A COPY-DISK: COPY-DISK Y/NQUERY CR 0 B/DSK B/DSK COPY-SOME ;S

7ED3 COPY-SOME: COPY-SOME DUP FMT ROT ROT DUP 0BRANCH 0011 CR (".") 0A COPYING...
" B/DSK ROT (DO) I #BUFS + B/DSK MIN I (DO) I OVER > 0BRANCH 000A I BUFFER BRANC
H 0006 I BLOCK DROP OVER 0BRANCH 000A I >#2 BRANCH 0004 UPDATE (LOOP) FFD6 FLUSH
#BUFS (+LOOP) F          FC0 2DROP ;S

7EBF >#2: >#2 DUP #2 SWAP REASSIGN UPDATE ;S

7E45 FMT: FMT (".") 14 PUT A DISK IN DRIVE " DUP B/DSK / 1+ . &HIT EMPTY-BUFFERS
(".") 0F INITIALIZING..." &DRV DROP 1 LIT B7EB C! LIT 0004 LIT B7F4 C! &RWTS 0BRA
NCH 001F LIT 0007 EMIT CR (".") 10 FORMATTING ERROR" QUIT ;S

7E22 &HIT: &HIT (".") 0F AND HIT ANY KEY" KEY DROP CR ;S

7E16 SET: SET ! ;S

7DF1 END-ECHO: END-ECHO BLACK-CURS CURS-TYPE WORD-LEN ! CAP ! PUNKED ! WORD1 ! C
HV! ;S

7DDE ECHO: ECHO BLINK ECHO @ EXECUTE ;S

7DA4 BLINK: BLINK BLINK-COUNTER @ 1+ BLINK-PERIOD MOD DUP BLINK-COUNTER ! -DUP 0
BRANCH 0012 WHITE-PERIOD = 0BRANCH 0006 BLACK-CURS CURS-TYPE BRANCH 000A INVERSE
WHITE-CURS CURS-TYPE INVERSE ;S

7D45 START-ECHO: START-ECHO LIT 000B 0 (DO) LF (LOOP) FFFC LIT 000B 0 (DO) UP (L
OOP) FFFC CURS-PREP WORD1 @ PUNKED @ CAP @ WORD-LEN @ 0 WORD-LEN ! LITW 7C93 CFA
ECHO ! BOTTOM SIZE ECHO-PTR ! LIT FFFF BLINK-COUNTER ! ;S

7CE1 CURS-PREP: CURS-PREP TWEEN CURS-SIZE DUP WHITE-CURS C! BLACK-CURS C! TWEEN
0BRANCH 0022 TOP>* DUP END-MARK < 0BRANCH 0004 ARRIVE? CH @ SWAP *>TOP CH @ BL B
RANCH 000E CH @ -> DUP LIT 003C DUP WHITE-CURS 1+ C! BLACK-CURS 1+ C! SWAP CURS-
CHV ! ;S

7CD2 <-: <- LIT FC10 CALL ;S

7CC3 ->: -> LIT FBF4 CALL ;S

7C89 PAINT: PAINT ECHO-PTR @ -DUP 0BRANCH 001A 1 - BOTTOM PEEK POUR DROP LIT FFF
F ECHO-PTR +! BRANCH 000C LITW 7C71 CFA ECHO ! ECHO-DONE? ;S

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7C67 CLEAN: CLEAN SPACE LIT 0027 CH C@ - LIT 0013 MIN SPACES ECHO-DONE? ;S

7C30 ECHO-DONE?: ECHO-DONE? CH @ LIT 1627 > 0BRANCH 001A BL LIT 0080 + CURS-ADR
C! TELL-FREE LITW 7BDE CFA `ECHO ! ;S

7BEC TELL-FREE: TELL-FREE LIT 0017 BCALC LIT 0028 BL LIT 0080 + FILL LIT 0017 LI
T 0014 VHTAB FREE-BLOCKS @ LIT 0004 - . (".) 07 K FREE." ;S

7BD5 IDLE: IDLE LIT 0078 0 (DO) (LOOP) FFFE ;S

7BB3 CURS-TYPE: CURS-TYPE CH @ SWAP CURS-CHV @ CHV! COUNT TYPE CHV! ;S

7B9C BLACK-CURS: BLACK-CURS

7B85 WHITE-CURS: WHITE-CURS

7B76 ECHO-PTR: ECHO-PTR

7B6A `ECHO: `ECHO

7B56 BLINK-COUNTER: BLINK-COUNTER

7B47 ECHO-CHV: ECHO-CHV

7B38 CURS-CHV: CURS-CHV

7B25 WHITE-PERIOD: WHITE-PERIOD

7B12 BLINK-PERIOD: BLINK-PERIOD

7AFB PLUS-KEY: PLUS-KEY DROP LIT 002B INSCH ;S

7AE3 CARET-KEY: CARET-KEY DROP LIT 005E INSCH ;S

7ACB SLASH-KEY: SLASH-KEY DROP LIT 002F INSCH ;S

7AB5 PUNCSTUFF: PUNCSTUFF PUNCT (´) (STUFF) ;S

7AA0 KEYSTUFF: KEYSTUFF KEYT (´) (STUFF) ;S

7A8D]KEY:]KEY DROP LIT 005D INSCH ;S

7A7A [KEY: [KEY DROP LIT 005B INSCH ;S

7A39 PARA-DEL-KEY: PARA-DEL-KEY DROP DEPART MARK-> TWEEN 3 = 0BRANCH 001A LIT 00
04 SOUND TOP>* DROP ARRIVE? HOVER @ -DUP 0BRANCH 0004 *>TOP 0 HOVER ! ;S

7A0B PARAKEY: PARAKEY DROP DEPART MARK-> TWEEN 3 = 0BRANCH 0008 TOP>* HOVER ! PA
RAMARK *>TOP 1 MODE ! ;S

79D5 PRINT-KEY: PRINT-KEY DROP DEPART TEXT-TOP SAVE-TEXT 1 TEXT-SAFE ! PR-START
BOT> DUP >PR PR-DONE? 0BRANCH FFF6 LOAD-TEXT TEXT-TOP 0 TEXT-SAFE ! ;S

79A2 PR-DONE?: PR-DONE? KEY? 0BRANCH 000A DROP 1 BRANCH 0018 END-MARK < 0BRANCH
0008 0 BRANCH 000A PR-FLUSH PR-CR ENDPAGE 1 ;S

7956 >PR: >PR SDUP MIN-SP < EH?> 0BRANCH 0008 CAPIZE? BRANCH 0030 SENTMARK < EH?
0BRANCH 0008 BL BRANCH 0020 1 CAP ! PARAMARK < EH? 0BRANCH 000A LIT 0013 BRANCH
0008 2DROP LIT 0010 PERMIT ;S

792A EXIT-KEY: EXIT-KEY DROP RESCUE LIT 0017 0 VHTAB CR (".) 08 ----- OK" EMPTY-
BUFFERS QUIT ;S

7913 RESCUE: RESCUE DEPART SAVE-TEXT 1 TEXT-SAFE ! ;S

7903 TEXT-SAFE: TEXT-SAFE

78BC PERMIT: PERMIT SDUP LIT 0010 = EH? 0BRANCH 0008 PR-PARA BRANCH 0028 LIT 001
3 = EH? 0BRANCH 0008 PR-SENT BRANCH 0016 BL = EH? 0BRANCH 0008 PR-BL BRANCH 0006
DROP PR-PR ;S

789A PR-SENT: PR-SENT BLOCKING @ 0BRANCH 000A PR-FLUSH PR-CR BRANCH 0006 PR-BL P
R-BL ;S

786E PR-BL: PR-BL PR-PTR C@ 0BRANCH 001A PR-FLUSH BL PR-EAT COL C@ PR-WIDTH @ <
0= 0BRANCH 0004 PR-CR ;S

781A PR-PARA: PR-PARA COL C@ 0BRANCH 0006 PR-FLUSH PR-CR PARA-SKIP @ 1+ ENDPAGE?
DROP PR-LINE @ TOPMARG @ > 0BRANCH 0008 PARA-SKIP @ PR-SKIP BLOCKING @ 0= 0BRAN
CH 000C 1PR INDENT @ SPACES 0PR COL C@ PR-PTR ! ;S

7794 PR-PR: PR-PR PR-EAT PR-PTR @ PR-WIDTH @ > 0BRANCH 006C COL C@ PR-BUF C@ BL
- 0BRANCH 0024 PR-WIDTH @ 2 - PR-UPTO 1PR (".") 01 -" 0PR COL C@ 1 - COL C! BRANC
H 001A COL C@ 1+ DUP COL C! PR-BUF C@ BL - 0BRANCH FFEA COL C@ PR-PTR @ PR-CR OV
ER - DUP ROT PR-
BUF 0 PR-BUF ROT CMOVE PR-PTR ! ;S

7744 PR-CR: PR-CR COL C@ PR-WIDTH @ < 0= END-CR @ 0= AND DUP PR-LINE +! 0= SPACI
NG @ 1 - + DUP ENDPAGE? 0= 0BRANCH 0008 PR-SKIP BRANCH 0004 DROP 0 COL C! 0 PR-P
TR ! ;S

772B PR-FLUSH: PR-FLUSH PR-PTR @ 1 - PR-UPTO ;S

7710 PR-EAT: PR-EAT PR-PTR @ PR-BUF C! 1 PR-PTR +! ;S

76E6 PR-UPTO: PR-UPTO COL C@ - 1+ -DUP 0BRANCH 0010 1PR COL C@ PR-BUF SWAP TYPE
0PR ;S

76BD ENDPAGE?: ENDPAGE? PR-LINE @ + PAGELEN @ BOTMARG @ - > DUP 0BRANCH 0004 END
PAGE ;S

7692 PR-START: PR-START 0 PAGE# ! 0 PR-PTR ! 1PR (".") 03 " 0PR 1 PR-SKIP NEWP
AGE ;S

7674 ENDPAGE: ENDPAGE ROLLPAPER @ 0BRANCH 0008 PAGELEN @ SKIP-TO NEWPAGE ;S

763C NEWPAGE: NEWPAGE 1 PAGE# +! 1PR ROLLPAPER @ 0BRANCH 000A LIT 002D BRANCH 00
06 LIT 000C EMIT 0 PR-LINE ! TOPMARG @ PR-SKIP ;S

7626 SKIP-TO: SKIP-TO PR-LINE @ - PR-SKIP ;S

75EA PR-SKIP: PR-SKIP DUP 0 > 0BRANCH 0024 DUP PR-LINE +! 1PR 0 (DO) CR LF? @ 0B
RANCH 0004 LF (LOOP) FFF2 0PR BRANCH 0004 DROP ;S

75DC 0PR: 0PR 0 PR ;S

75A8 1PR: 1PR SLOT @ DUP PR -DUP 0BRANCH 0016 LIT 07F8 + DUP C@ LIT 0080 OR SWAP
C! COL C@ CH C! ;S

7588 COL: COL SLOT @ -DUP 0BRANCH 000C LIT 05F8 + BRANCH 0004 CH ;S

757E LF?: LF?

756E ROLLPAPER: ROLLPAPER

74DC PR-BUF: PR-BUF

74D0 PAGE#: PAGE#

74C2 BOTMARG: BOTMARG

74B4 TOPMARG: TOPMARG

74A6 PAGELEN: PAGELEN

7498 PR-LINE: PR-LINE

7489 BLOCKING: BLOCKING

747C INDENT: INDENT

746C PARA-SKIP: PARA-SKIP

745E SPACING: SPACING

7453 CHSV: CHSV

7446 PR-PTR: PR-PTR

7439 END-CR: END-CR

742A PR-WIDTH: PR-WIDTH

741F SLOT: SLOT

73FF CLR-DEL-KEY: CLR-DEL-KEY DROP DELETE-BUFFER EMPTY-CSTACK LIT 0004 3 SOUNDS
;S

73D0 DELETE-KEY: DELETE-KEY DROP 0 HOVER ! TWEEN 0BRANCH 000A MODE DELETE BRANCH
000A LIT 0004 SOUND ERAC ;S

736F DELETE: DELETE MARK-> BOTTOM TOS-TYPE LIT 0004 < 0BRANCH 0044 DUP 3 SOUNDS
CUT-MARK >DEL BOTTOM DELETE-BUFFER ROT TYPE-SP XFER BOTTOM TOS-TYPE 3 < 0BRANCH
0006 BOT> >DEL BOTTOM TOS-TYPE 2 > TWEEN 3 = AND 0BRANCH 0008 TOP>* >DEL ARRIVE?
BRANCH 0004 DRO P ;S

7357 SLURP-KEY: SLURP-KEY END-WORD? 2DROP ACTIVE BLURP ;S

7319 BLURP: BLURP DEL>? 0BRANCH 002E LIT 0005 SOUND DUP PARAMARK < 0= 0BRANCH 00
18 2 LIT 0005 SOUNDS <-MARK ARRIVE? SP-> SPIT *>TOP BRANCH 0006 >DEL SPIT ;S

72EC SPIT: SPIT DELETE-BUFFER LIT 0004 + @ 0= 0= 0BRANCH 0012 DELETE-BUFFER BOTT
OM CUT-MARK XFER DEL>? 0BRANCH 0004 DROP ;S

72B8 ESC-KEY: ESC-KEY DROP LEVEL @ 1+ LIT 0004 MOD DUP LEVEL ! -DUP 0BRANCH 000A
1 SOUNDS BRANCH 0006 2 SOUND ;S

728F MODE-KEY: MODE-KEY DROP `MODE @ 3 + MODETAB @ DUP `MODE ! ABS 0 SOUNDS ;S

7273 MODETAB: MODETAB

7254 LETTER: LETTER LEVEL @ 0= 0BRANCH 0008 LIT 0020 + INSCH ;S

721C INSCH: INSCH LEVEL @ 1 = 0BRANCH 0008 0 LEVEL ! HOVER @ -DUP 0BRANCH 000A >
BOT 0 HOVER ! *>TOP 1 `MODE ! ;S

7200 SENTKEY: SENTKEY END-WORD? DROP 1 WASPUNKED ! END-SENT? DROP ;S

71DA SPACE-BAR: SPACE-BAR DROP INS-SP? 0= MODE 1 > OR 0BRANCH 0006 MODE NOISY-ST
EP ;S

7185 BACK-KEY: BACK-KEY DROP WORDMODE TWEEN 0= 0BRANCH 0016 BUMPY @ *>TOP PUNKED
@ WASPUNKED ! LIT FFFF STEP TWEEN 3 = 0BRANCH 0006 TOP>* >BOT TWEEN 3 < 0BRANCH
0010 LIT 0007 SOUND TOP>* BUMPY ! CHEK-WORD ;S

7173 <-KEY: <-KEY SUPER MINUS NOISY-STEP ;S

7163 ->KEY: ->KEY SUPER NOISY-STEP ;S

7151 SUPER: SUPER DROP MODE 1+ ;S

7124 NOISY-STEP: NOISY-STEP DUP DUP 0< 0BRANCH 000C MINUS LIT 0007 BRANCH 0006 L
IT 0006 SOUNDS STEP ;S

70FB STEP: STEP DEPART 0 HOVER ! DUP 0< 0BRANCH 000C MINUS UNSHIFT? BKWD BRANCH
0006 UNSHIFT? FWD ;S

70E0 UNSHIFT?: UNSHIFT? DUP 1 > 0BRANCH 0004 UNSHIFT ;S

70CE FWD: FWD MARK-> TYPE-SP BOT>***>TOP SP-> ;S

70A7 BKWD: BKWD DUP LIT 0004 = 0BRANCH 000A DROP TEXT-TOP BRANCH 000A <-MARK TYP
E-SP TOP>***>BOT ARRIVE? ;S

7080 SP->: SP-> BOTTOM TOS DUP MIN-SP < 0= SWAP PARAMARK < AND 0BRANCH 0006 BOT>
*>TOP ;S

7053 MARK->: MARK-> BOTTOM TOS DUP MIN-SP < 0= SWAP END-MARK < AND 0BRANCH 000A
BOT> *>TOP BRANCH FFE2 ;S

7026 <-MARK: <-MARK TOP TOS DUP END-MARK < SWAP MIN-SP < 0= AND 0BRANCH 000A TOP
>* >BOT BRANCH FFE2 ;S

6FDF DEPART: DEPART END-WORD? DROP TWEEN 3 = 0BRANCH 0018 BOTTOM TOS-TYPE LIT 00
04 = 0BRANCH 0006 TOP>* DROP BRANCH 0012 BOTTOM TOS-TYPE 2 > 0BRANCH 0006 END-SE
NT? DROP CLRPUNC CLRWAS ACTIVE ;S

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6FC5 INS-SP?: INS-SP? END-WORD? -DUP 0= 0BRANCH 0004 END-SENT? ;S

6F93 END-SENT?: END-SENT? WASPUNKED @ TWEEN 1 = AND DUP 0BRANCH 000C TOP>* DROP
SENTMARK *>TOP ACTIVE 0 WASPUNKED ! ;S

6F53 END-WORD?: END-WORD? TWEEN 0= DUP 0BRANCH 0028 PUNKED @ WASPUNKED ! SPACER
*>TOP 0 HOVER ! LEVEL @ 3 < 0BRANCH 0008 0 LEVEL ! ACTIVE ;S

6F3D ANDIF: ANDIF COMPILE DUP IF COMPILE DROP ;S

6F28 ORIF: ORIF COMPILE -DUP COMPILE 0= IF ;S

6EED ERAC: ERAC TOP>* DROP TWEEN 3 = 0BRANCH 0020 CLRPUNC 1 CAP ! BOTTOM TOS-TYP
E 3 = 0BRANCH 0008 BOT> HOVER ! BRANCH 0004 CHEK-WORD ACTIVE ;S

6EC5 CHEK-WORD: CHEK-WORD SPACER >BOT CLRPUNC SPACER TOP>***>BOT TOP>* *>TOP ARR
IVE? SPACER BOT>***>TOP BOT> DROP ;S

6EAE ACTIVE: ACTIVE MODE DROP SPACER BUMPY ! ;S

6E8F TEXT-TOP: TEXT-TOP HOME TOP BOTTOM END-MARK XFER BANNER CR AT-LEFT ;S

6E7A WORDMODE: WORDMODE 1 `MODE ! ;S

6E63 MODE: MODE `MODE @ ABS DUP `MODE ! ;S

6E43 UNSHIFT: UNSHIFT LEVEL @ 0BRANCH 000C 2 SOUND 0 LEVEL ! ;S

6E37 BUMPY: BUMPY
6E2B HOVER: HOVER
6E1F `MODE: `MODE
6E10 JUST-ESC: JUST-ESC
6E04 LEVEL: LEVEL
6DAA NOISE-KEY: NOISE-KEY DROP MUFF @ SDUP LIT 0008 = EH? 0BRANCH 000A LIT 0006
BRANCH 002A LIT 0006 = EH? 0BRANCH 0008 2 BRANCH 0018 2 = EH? 0BRANCH 0008 0 BRA
NCH 0008 2DROP LIT 0008 MUFF ! CACOPH ;S

6D79 CACOPH: CACOPH LIT 0008 0 (DO) I SOUND I 1+ MUFF @ < 0BRANCH 0008 PAUSE PAU
SE PAUSE (LOOP) FFE6 ;S

6D40 SOUNDS: SOUNDS SWAP -DUP 0BRANCH 0024 0 SWAP 0 (DO) -DUP 0BRANCH 000C 0 (DO
) PAUSE (LOOP) FFFC DUP (SOUND) (LOOP) FFEA DROP DROP ;S

6D30 SOUND: SOUND (SOUND) DROP ;S

6C6A (SOUND): (SOUND) DUP MUFF @ < 0BRANCH 00AA 0 SWAP SDUP 0 = EH? 0BRANCH 000C
LIT 0007 EMIT BRANCH 008C 1 = EH? 0BRANCH 000A CLUCK 1+ BRANCH 007A 2 = EH? 0BR
ANCH 000A CLACK 1+ BRANCH 0068 3 = EH? 0BRANCH 000E 0 2 UP- SWEEP BRANCH 0052 LI
T 0004 = EH? 0BRANCH 0010 LIT 0046 1 UP- SWEEP BRANCH 0038 LIT 0
005 = EH? 0BRANCH 000E 0 2 DWN- SWEEP BRANCH 0020 DROP LIT 0005 LIT 0014 OSC LIT
0007 = 0BRANCH 0008 PAUSE CLUCK 1+ 1+ BRANCH 0006 DROP 0 ;S

6C59 DWN-: DWN- LIT FFFF CLICKER ;S

6C49 UP-: UP- CLICKER LIT FFFF ;S

6C3E MUFF: MUFF
6C14 CLUCK: CLUCK 1 LIT 0004 OSC LIT 003C 0 (DO) (LOOP) FFFE LIT 0005 LIT 0004 O
SC ;S

6BFE CLACK: CLACK LIT 000A LIT 0004 OSC/2 ;S

6BE6 PAUSE: PAUSE LIT 0177 0 (DO) (LOOP) FFFE ;S

6BC4 OSC/2: OSC/2 0 (DO) GLICK DUP 0 (DO) (LOOP) FFFE (LOOP) FFF2 DROP ;S

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6BA2 OSC: OSC 0 (DO) GLICK DUP 0 GLICK (DO) (LOOP) FFFE (LOOP) FFF0 DROP ;S

6B90 GLICK: GLICK 0 CLICKER C! ;S

6B78 CLICK: CLICK 0 0 CLICKER C! CLICKER C! ;S

6B6A CLICKER: CLICKER
6B09 SWEEP: SWEEP
6AF5 BOT>***>TOP: BOT>***>TOP B>***>T ;S

6AE5 *>TOP: *>TOP POUR >TOP ;S

6AC7 ARRIVE?: ARRIVE? LOST @ 0BRANCH 0008 ARRIVE BRANCH 0004 SENTCAP? ;S

6A7A ARRIVE: ARRIVE CUT-MARK >BOT TWEEN LIT 0004 < 0BRANCH 0016 TOP>* >BOT WORD1
@ 0BRANCH FFF6 SPACER TOP>***>BOT BRANCH 0008 WORD1-BIT WORD1 ! 0 CH C! 0 LOST
! SENTCAP? CUT-MARK B>***>T BOT> DROP ;S

6A34 TOP>***>BOT: TOP>***>BOT DIME ! TOP S-CS ! DONE 0= 0BRANCH 0024 TOP ^TOS BO
TTOM PREPUSH TOP #CHARS BOTTOM @ MIN (T>*>B) DUP TOP #CPOPPED BOTTOM #CPUSHED BR
ANCH FFD8 ;S

69E4 (T>*>B): (T>*>B) 0 SWAP 0 (DO) DROP OVER I + C@ DUP DIME @ < 0BRANCH 0016 D
UP UNPOUR OVER I - C! I 1+ BRANCH 0008 DROP I LEAVE (LOOP) FFCE ROT ROT 2DROP ;S

69A2 B>***>T: B>***>T DIME ! BOTTOM S-CS ! DONE 0= 0BRANCH 0024 BOTTOM ^TOS TOP
PREPUSH BOTTOM #CHARS TOP @ MIN (B>*>T) DUP BOTTOM #CPOPPED TOP #CPUSHED BRANCH
FFD8 ;S

6954 (B>*>T): (B>*>T) 0 SWAP 0 (DO) DROP OVER I + C@ DUP DIME @ < 0BRANCH 0014 P
OUR OVER I - C! I 1+ BRANCH 0008 DROP I LEAVE (LOOP) FFD0 ROT ROT 2DROP ;S

6942 TOP>*: TOP>* TOP> DUP UNPOUR ;S

68AD UNPOUR: UNPOUR DUP MIN-SP < 0= 0BRANCH 001A WORD1 @ 0BRANCH 0004 AT-LEFT DU
P WORD1-BIT AND WORD1 ! BRANCH 000A LIT FFFF WORD-LEN +! CH C@ OVER CH-SIZE - DU
P 0< 0BRANCH 0038 DROP DUP END-MARK < 0= CV C@ 0= UNLF LIT 0026 CH C! OVER 0BRAN
CH 0004 BANNER? OR DUP LOST ! 0= 0BRANCH 0004 GROPE BRANCH 0006
CH C! PARAMARK < 0= 0BRANCH 0008 0 LOST ! ;S

6877 GROPE: GROPE CV C@ BCALC CH C@ 1 - 2DUP + C@ BL LIT 0080 + - 0BRANCH FFEA 1
+ CH C! DROP ;S

6858 POUR: POUR DUP MIN-SP < 0BRANCH 000A DUP NON-SP-POUR BRANCH 0004 SP-POUR ;S

67F6 NON-SP-POUR: NON-SP-POUR CH C@ LIT 0025 > 0BRANCH 003C CH C@ WORD-LEN @ - N
EXT-LINE AT-LEFT CV C@ 1 - BCALC + DUP CURS-ADR WORD-LEN @ CMOVE WORD-LEN @ BL
LIT 0080 + FILL WORD-LEN @ CH +! (>SCR) 1 WORD-LEN +! ;S

67DD (>SCR): (>SCR) DUP CHEKCHAR CAPIZE? ^SCREMIT @ EXECUTE ;S

67CE ^SCREMIT: ^SCREMIT
6774 SP-POUR: SP-POUR DUP DUP SENTMARK < 0= CAP ! DUP CH-TYPE 3 - 0BRANCH 000A C
H-SIZE SPACES BRANCH 0016 DROP CH C@ 0BRANCH 0004 NEXT-LINE AT-LEFT LIT 0005 SPA
CES 0 WORD-LEN ! HI-BITS AND WORD1 @ OR 0 WORD1 ! ;S

6758 NEXT-LINE: NEXT-LINE LIT 0028 CH C@ - SPACES ;S

6738 AT-LEFT: AT-LEFT WORD1-BIT WORD1 ! 0 LOST ! 0 CH C! ;S

672C WORD1: WORD1
671D WORD-LEN: WORD-LEN
6712 LOST: LOST
66EC BANNER?: BANNER? CV C@ 2 < 0BRANCH 000E UNLF UNLF 0 CH C! BANNER ;S

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6686 BANNER: BANNER (." ) 50 JOT(TM) VERSION 0.53 (C) 1986 TED NELSON . . .
. . . . . " LIT 0026 SPACES ;S

6658 MULTI<-: MULTI<- CH C@ SWAP - DUP 0< 0BRANCH 000E UNLF LIT 0028 + BRANCH FF
EE CH C! ;S

6649 LF: LF LIT 000A EMIT ;S

662E UNLF: UNLF CV C@ 0BRANCH 0008 UP BRANCH 0004 SCROLLDOWN ;S

661F UP: UP LIT FC1A CALL ;S

65D4 SCROLLDOWN: SCROLLDOWN LIT 0017 BCALC LIT FFFF LIT 0016 (DO) I BCALC DUP RO
T LIT 0028 CMOVE LIT FFFF (+LOOP) FFEC DROP 0 BCALC LIT 0028 BL LIT 0080 + FILL
;S

6599 CHEKCHAR: CHEKCHAR SDUP LIT 005D = EH? 0BRANCH 0006 BRANCH 001C LIT 0040 <
EH?> 0BRANCH 000C PUNCT @ EXECUTE BRANCH 0006 2DROP CLRPUNC ;S

6587 PUNCT: PUNCT BL - (PUNCT) ;S

6573 SETPUNC: SETPUNC 1 PUNKED ! ;S

655F CLRPUNC: CLRPUNC 0 PUNKED ! ;S

654C CLRWAS: CLRWAS 0 WASPUNKED ! ;S

653C WASPUNKED: WASPUNKED
652F PUNKED: PUNKED
64E1 (PUNCT): (PUNCT)
63D6 KEYT: KEYT
63B0 REVCAPS: REVCAPS DUP DUP LETTER? = 0BRANCH 000C INVERSE EMIT INVERSE BRANCH
0004 ALLCAPS ;S

639C ALLCAPS: ALLCAPS CAPIZE DROP EMIT ;S

6380 CAPIZE?: CAPIZE? CAP @ 0BRANCH 0008 CAPIZE CAP ! ;S

635D CAPIZE: CAPIZE DUP LETTER? -DUP 0BRANCH 000C SWAP DROP 0 BRANCH 0004 1 ;S

632D LETTER?: LETTER? LIT FFDF AND DUP DUP LIT 0041 < SWAP LIT 005A > OR 0BRANCH
0006 DROP 0 ;S

6314 SENTCAP?: SENTCAP? TWEEN 1 > CAP ! ;S

630A CAP: CAP
62F6 LIKEY: LIKEY BL CURS-ADR C! DARKEY ;S

62DB CURS-ADR: CURS-ADR CV C@ BCALC CH C@ + ;S

62C8 DARKEY: DARKEY KEY? 0BRANCH FFEC ;S

62B0 INVERSE: INVERSE LIT 0032 LIT 00C0 TOGGLE ;S

6299 KEY?: KEY? ?KEY DUP 0BRANCH 0006 KEY SWAP ;S

6284 ?KEY: ?KEY KBD C@ LIT 007F > ;S

626F CHV!: CHV! CH ! LIT FC22 CALL ;S

6265 KBD: KBD
624E CURS-SIZE: CURS-SIZE
6239 CH-SIZE: CH-SIZE
6229 TWEEN: TWEEN TOP TOS-TYPE ;S

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6216 TOS-TYPE: TOS-TYPE TOS CH-TYPE ;S

61C0 CH-TYPE: CH-TYPE SDUP MIN-SP < EH? 0BRANCH 0008 0 BRANCH 0038 SENTMARK < EH
? 0BRANCH 0008 1 BRANCH 0028 PARAMARK < EH? 0BRANCH 0008 2 BRANCH 0018 END-MARK
< EH? 0BRANCH 0008 3 BRANCH 0008 2DROP LIT 0004 ;S

618E DEFAULT: DEFAULT CASES @ DUP 0BRANCH 0010 0 (DO) THEN (LOOP) FFFC BRANCH 00
04 DROP LIT 0005 ?PAIRS CASES ! ;S

6176 CASE>: CASE> 1 CASES +! COMPILE EH?> IF ;S

615F CASE: CASE 1 CASES +! COMPILE EH? IF ;S

6140 SWITCH: SWITCH CASES @ 0 CASES ! LIT 0005 COMPILE SDUP ;S

60DF SW-STUFF: SW-STUFF

608C XFER: XFER DIME ! D-CS ! S-CS ! DONE 0= 0BRANCH 0036 S-CS @ 'TOS D-CS @ PRE
PUSH S-CS @ #CHARS D-CS @ @ MIN LIT 00FF MIN MLXFER DUP S-CS @ #CPOPPED D-CS @ #
CPUSHED BRANCH FFC6 ;S

605B DONE: DONE S-CS @ DUP LIT 0004 + @ 0= 0BRANCH 000A DROP 1 BRANCH 000C TOS D
IME @ < 0= ;S

6050 D-CS: D-CS

6045 S-CS: S-CS

6036 >=: >= (MACRO) < 0= ;S

6029 <>: <> (MACRO) - ;S

601A <=: <= (MACRO) > 0= ;S

600C NOT: NOT (MACRO) 0= ;S

5FCC MLXFER: MLXFER

5FC1 DIME: DIME

5EE2 CLEAR-TEXT: CLEAR-TEXT EMPTY-BUFFERS FREE-ALL END-MARK >TOP END-MARK >BOT ;
S

5ECE LOAD-TEXT: LOAD-TEXT INDX LOAD-INDEX ;S

5E9D LOAD-INDEX: LOAD-INDEX EMPTY-BUFFERS DUP BLOCK PTR ! FREE-BLOCKS LOAD-BUNCH
TOP LOAD-CS DELETE-BUFFER LOAD-CS BOTTOM LOAD-CS SLURP-BUFFER LOAD-CS FLUSH-ONE
;S

5E7F LOAD-CS: LOAD-CS DUP LIT 0004 LOAD-BYTES LIT 0004 + LOAD-BUNCH ;S

5E64 LOAD-BUNCH: LOAD-BUNCH PTR @ @ 2+ LOAD-BYTES ;S

5E43 LOAD-BYTES: LOAD-BYTES PTR @ OVER PTR +! ROT ROT CMOVE ;S

5E30 SAVE-KEY: SAVE-KEY DROP SAVE-TEXT ;S

5E1A SAVE-TEXT: SAVE-TEXT INDX WRITE-INDEX WRITE-ALL ;S

5DE8 WRITE-INDEX: WRITE-INDEX DUP BUFFER PTR ! FREE-BLOCKS SAVE-BUNCH TOP SAVE-C
S DELETE-BUFFER SAVE-CS BOTTOM SAVE-CS SLURP-BUFFER SAVE-CS UPDATE FLUSH-ONE ;S

5DCA SAVE-CS: SAVE-CS DUP LIT 0004 SAVE-BYTES LIT 0004 + SAVE-BUNCH ;S

5DB1 SAVE-BUNCH: SAVE-BUNCH DUP @ 2+ SAVE-BYTES ;S

5D92 SAVE-BYTES: SAVE-BYTES PTR @ SWAP DUP PTR +! CMOVE ;S

5D88 PTR: PTR

5D79 >SIP: >SIP SLURP-BUFFER CPUSH ;S


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5D6A >DEL: >DEL DELETE-BUFFER CPUSH ;S

5D5B >BOT: >BOT BOTTOM CPUSH ;S

5D4C >TOP: >TOP TOP CPUSH ;S

5D32 CPUSH: CPUSH SWAP OVER PREPUSH C! 1 SWAP #CPUSHED ;S

5D0D #CPUSHED: #CPUSHED SWAP DUP 0BRANCH 000C MINUS SWAP +! BRANCH 0006 SWAP #CP
OPPED ;S

5CD3 PREPUSH: PREPUSH DUP @ 0= 0BRANCH 001C 1 OVER LIT 0004 + +! ALLOC OVER ^TOS
-BLK C! B/BUF OVER ! ^TOS 1 - UPDATE ;S

5CC3 SIP>?: SIP>? SLURP-BUFFER CPOP? ;S

5CB3 DEL>?: DEL>? DELETE-BUFFER CPOP? ;S

5CA4 BOT>: BOT> BOTTOM CPOP ;S

5C95 TOP>: TOP> TOP CPOP ;S

5C6A EMPTY-CSTACK: EMPTY-CSTACK DUP LIT 0004 + @ 0BRANCH 000A DUP POP-BLK BRANCH
FFEC DROP ;S

5C4E CPOP: CPOP CPOP? 0= 0BRANCH 000B (".") 04 CPOP" QUIT ;S

5C1E CPOP?: CPOP? DUP LIT 0004 + @ 0= 0BRANCH 000A DROP 0 BRANCH 000E DUP TOS 1
ROT #CPOPPED 1 ;S

5BED #CPOPPED: #CPOPPED SWAP -DUP 0BRANCH 001A OVER +! DUP #CHARS 0BRANCH 0008 D
ROP BRANCH 0004 POP-BLK BRANCH 0004 DROP ;S

5BB8 FREE-ALL: FREE-ALL 0 FREE-BLOCKS ! BLKN 1+ BLK1 (DO) I FREE (LOOP) FFFA DEL
ETE-BUFFER CLR-CSTK TOP CLR-CSTK SLURP-BUFFER CLR-CSTK BOTTOM CLR-CSTK ;S

5B8E POP-BLK: POP-BLK DUP ^TOS-BLK C@ FREE LIT FFFF OVER LIT 0004 + +! 0 SWAP !
;S

5B75 FREE: FREE 1 FREE-BLOCKS +! DUP FREE-BUFFER LAST-FREE C! ;S

5B33 ALLOC: ALLOC FREE-BLOCKS @ 0BRANCH 0012 LAST-FREE C@ LIT FFFF FREE-BLOCKS +
! BRANCH 001A (".") 13 OUT OF DISK BLOCKS!" QUIT DUP BUFFER DROP ;S

5B19 LAST-FREE: LAST-FREE FREE-BLOCKS DUP @ + 1+ ;S

5B0A RES-FREE: RES-FREE
5A6C FREE-BLOCKS: FREE-BLOCKS
5A41 TURKEY: TURKEY QUIT CFA DUP DUP LITW 2675 ! LITW 4A81 ! LIT 5A4C ! SAVETUR
NKEY ;S

5A22 PEEK: PEEK LIT 0006 + SWAP B/BUF /MOD ROT + C@ TH-CHAR ;S

5A06 TH-CHAR: TH-CHAR BLOCK B/BUF ROT 1+ - + C@ ;S

59EF ^BOT-BLK: ^BOT-BLK (MACRO) LIT 0006 + ;S

59D0 SIZE: SIZE DUP LIT 0004 + @ B/BUF * SWAP @ - ;S

592B SLURP-BUFFER: SLURP-BUFFER
588C BOTTOM: BOTTOM
57E6 DELETE-BUFFER: DELETE-BUFFER
574A TOP: TOP
5721 CLR-CSTK: CLR-CSTK 0 OVER ! 0 OVER LIT 0004 + ! 0 SWAP 2+ ! ;S

5713 TOS: TOS ^TOS C@ ;S

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56FA `TOS: `TOS DUP `TOS-BLK C@ BLOCK SWAP @ + ;S
56E6 TOS-BLK: TOS-BLK (MACRO) `TOS-BLK C@ ;S
56C9 `TOS-BLK: `TOS-BLK LIT 0004 + DUP @ + 1+ ;S
56B8 #RES: #RES (MACRO) 2+ @ ;S
56A8 `#RES: `#RES (MACRO) 2+ ;S
568F EMPTY?: EMPTY? (MACRO) LIT 0004 + @ 0= ;S
5679 #BLKS: #BLKS (MACRO) LIT 0004 + @ ;S
5664 `#BLKS: `#BLKS (MACRO) LIT 0004 + ;S
564F #CHARS: #CHARS B/BUF SWAP @ - ;S
563F #FREE: #FREE (MACRO) @ ;S
5630 `#FREE: `#FREE (MACRO) ;S
560F CSTACK: CSTACK <BUILDS 0 , 0 , 0 , B/DSK ALLOT DOES> ;S
5604 "ESC: "ESC
55F4 BACKSLASH: BACKSLASH
55EA "->: "->
55E0 "<=: "<=
55CB TYPE-SP: TYPE-SP
55BB WORD1-BIT: WORD1-BIT
55AD HI-BITS: HI-BITS
559E LOW-BITS: LOW-BITS
558F END-MARK: END-MARK
5580 CUT-MARK: CUT-MARK
5571 PARAMARK: PARAMARK
5562 SENTMARK: SENTMARK
5555 SPACER: SPACER
5548 MIN-SP: MIN-SP
553D BLKN: BLKN
5532 BLK1: BLK1
5527 INDX: INDX
551C NOP: NOP
54F9 CTABLE: CTABLE <BUILDS CFA , DOES> SWAP OVER @ EXECUTE + 2+ C@ ;S
54A3 NCOPIES: NCOPIES >R SWAP R> OVER - >R R ROT ROT R> 0< 0BRANCH 000A SWAP 1+
BRANCH 0006 1 - SWAP (DO) I OVER I + UNCLOG OVER . (COPY) DUP SIGNUM MINUS (+LOOP)
FFE8 DROP FLUSH ;S
5476 SIGNUM: SIGNUM DUP 0< 0BRANCH 000C DROP LIT FFFF BRANCH 0010 0= 0BRANCH 000
8 0 BRANCH 0004 1 ;S
5457 NWIPES: NWIPES 1+ SWAP (DO) I UNCLOG (WIPE) (LOOP) FFF8 FLUSH ;S
5438 UNCLOG: UNCLOG 32K-1 LOOK-RES? 0BRANCH 0008 DROP BRANCH 0006 DROP FLUSH ;S
5428 1WIPE: 1WIPE (WIPE) FLUSH ;S
53F9 (WIPE): (WIPE) B/SCR * DUP B/SCR + SWAP (DO) I BLOCK LIT 0400 LIT 0020 FILL
UPDATE (LOOP) FFEE ;S
53E9 1COPY: 1COPY (COPY) WRITE-ALL ;S
53B4 (COPY): (COPY) B/SCR * OFFSET @ + SWAP B/SCR * DUP B/SCR + SWAP (DO) DUP I
REASSIGN 1+ (LOOP) FFF6 DROP ;S

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537A WRITE-ALL: WRITE-ALL LIMIT @ FIRST @ (DO) I @ DUP 32K-1 - 0BRANCH 000A UNSI
GN WRITE-ONE BRANCH 0004 DROP LIT 0404 (+LOOP) FFE2 ;S

5364 FLUSH-ONE: FLUSH-ONE DUP WRITE-ONE EMPTY-BUFFER ;S

534A FREE-BUFFER: FREE-BUFFER RESIDENT? 0BRANCH 0004 CHUCK ;S

5327 EMPTY-BUFFER: EMPTY-BUFFER RESIDENT? 0BRANCH 000C DUP LIT 0400 ERASE CHUCK
;S

52F5 WRITE-ONE: WRITE-ONE UPDATED? 0BRANCH 001C DUP 2 - DUP @ UNSIGN DUP ROT ! 0
&R/W BRANCH 0004 DROP ;S

52DA UPDATED?: UPDATED? BLOCK DUP 2 - @ 0< ;S

52C3 >BLK: >BLK LIT 0404 * FIRST @ + ;S

5283 RLIST: RLIST LIMIT @ FIRST @ (DO) I @ 32K-1 - 0BRANCH 0018 I @ 0< 0BRANCH 0
006 (".") 01 *" I @ UNSIGN . LIT 0404 (+LOOP) FFD8 ;S

523C BLK>: BLK> DUP DUP FIRST @ LIT 0404 - U< BLK? LIMIT @ OVER U< BLK? FIRST @
LIT 0404 - - 0 LIT 0404 U/ ROT ROT BLK? DROP 1 - ;S

5219 BLK?: BLK? 0BRANCH 0016 U. (".") 0D =BLOCK.ADR-2?" QUIT ;S

5203 CHUCK: CHUCK 2 - 32K-1 SWAP ! ;S

51E2 REASSIGN: REASSIGN BLOCK 2 - 2DUP ! SWAP BLK-TAB ! UPDATE ;S

51BB BUFFER: BUFFER DUP RESIDENT? 0BRANCH 000A SWAP DROP BRANCH 000C OFFSET @ +
BUFFER NOTE-RES ;S

519B BLOCK: BLOCK DUP RESIDENT? 0BRANCH 000A SWAP DROP BRANCH 0006 BLOCK NOTE-RE
S ;S

517C NOTE-RES: NOTE-RES DUP 2 - DUP @ UNSIGN BLK-TAB ! ;S

5160 #BUFS: #BUFS LIMIT @ FIRST @ - LIT 0404 / ;S

50FC RESIDENT?: RESIDENT? OFFSET @ + DUP ?BLK BLK-TAB 2DUP @ @ UNSIGN = 0BRANCH
000E SWAP DROP @ 1 BRANCH 001C SWAP LOOK-RES? 0BRANCH 000E DUP ROT ! 1 BRANCH 00
08 DROP DROP 0 0BRANCH 0010 DUP PREV ! 2+ 1 BRANCH 0004 0 ;S

50CA ?BLK: ?BLK DUP 0 < OVER DISKMAX @ > OR 0BRANCH 0015 . (".") 0C DISK BLOCK? "
QUIT ;S

4E8C BLK-TAB: BLK-TAB
4E77 CARRAY: CARRAY <BUILDS ALLOT DOES> + ;S

4E62 STUFFS: STUFFS (´) ROT ROT (STUFFS) ;S

4E3F (STUFFS): (STUFFS) 1+ SWAP (DO) I OVER (STUFF) 2 (+LOOP) FFF6 DROP ;S

4E2F STUFF: STUFF (´) (STUFF) ;S

4E19 (STUFF): (STUFF) 2 - SWAP ! ;S

4DFF ARRAY: ARRAY <BUILDS 2* ALLOT DOES> SWAP 2* + ;S

4DF0 2*: 2* (MACRO) DUP + ;S

4DDC MACRO: MACRO ?COMP IMMEDIATE COMPILE (MACRO) ;S

4D8C (MACRO): (MACRO) STATE @ 0BRANCH 003C GRAB 2+ DUP LITW 0C39 - 0BRANCH 0026
DUP CFA , DUP LITW 08A0 = SWAP LITW 4386 = OR 0BRANCH 0006 GRAB , BRANCH FFCE DR
OP R> DROP ;S

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4D70 CGRAB: CGRAB R> R C@ R> 1+ >R SWAP >R ;S

4D55 GRAB: GRAB R> R @ R> 2+ >R SWAP >R ;S

4D40 J: J
4D2A I': I'
4CAE LOOK-RES?: LOOK-RES? 0 LIMIT @ FIRST @ (DO) OVER I @ UNSIGN = 0BRANCH 000E
2DROP I 1 LEAVE BRANCH 0006 I NOTE-IF-FREE B/BUF LIT 0004 + (+LOOP) FFD8 ;S

4C7D NOTE-IF-FREE: NOTE-IF-FREE DUP @ 32K-1 = 0BRANCH 0012 -BUF DUP USE ! PREV !
BRANCH 0004 DROP ;S

4C5A -BUF: -BUF DUP FIRST @ = 0BRANCH 0008 DROP LIMIT @ LIT 0404 - ;S

4C49 UNSIGN: UNSIGN 32K-1 AND ;S

4C3D 32K-1: 32K-1
4A97 EDIT:: EDIT: LOOKUP EDIT ;S

4A78 EDIT: EDIT QUIT ED-SCR ! 0 ED-CV ! 0 ED-CH ! RE ;S

4A6B RE: RE ?STACK EDIT-LOOP ;S

4881 INCLUDE: INCLUDE TASTE 0BRANCH 000A BL WORD BRANCH 0006 LOOKUP LOAD ;S

485C LOOKUP: LOOKUP LOOKUP? 0= 0BRANCH 0012 CR HERE COUNT TYPE (".") 03 ?!?" QUIT
;S

47F6 LOOKUP?: LOOKUP? BL WORD BL APPEND-CHAR OFFSET @ >R BLK @ B/DSK / B/DSK * O
FFSET! BASE @ >R DECIMAL (LOOKUP?) 0BRANCH 0008 1 BRANCH 0006 SUMMARIZE (LOOKUP?
) R> BASE ! OFFSET @ R - SWAP 0BRANCH 000A + 1 BRANCH 0006 DROP 0 R> OFFSET! ;S

47D2 APPEND-CHAR: APPEND-CHAR HERE C@ 1+ DUP HERE C! HERE + C! ;S

477A (LOOKUP?): (LOOKUP?) 0 LOOK1 DUP LOOKS + SWAP (DO) I IN-INDEX 0BRANCH 000A
ROT DROP 1 LEAVE (LOOP) FFEE 0BRANCH 0022 OVER BLOCK LIT 0024 SWAP -TEXT 0= 0BRA
NCH 0008 1 BRANCH 0006 DROP 0 BRANCH 0004 0 ;S

470B IN-INDEX: IN-INDEX BLOCK 0 OVER LIT 0017 LIT 0028 * + ROT LIT 0050 + (DO) I
LIT 0004 + LOOKPTR ! IN-LIST 0BRANCH 000A DROP I 1 LEAVE LIT 0028 (+LOOP) FFE0
0BRANCH 001E DUP C@ BL = 0BRANCH 0008 1+ BRANCH FFF0 -NUMBER 1+ 1 BRANCH 0004 0
;S

46E9 -NUMBER: -NUMBER LIT 0000 LIT 0000 ROT 1 - (NUMBER) SWAP DROP ;S

46B5 IN-LIST: IN-LIST 0 LPAR SAME-WORD 0BRANCH 001E -BL RPAR SAME-WORD 0= 0BRANC
H 0012 HERE SAME-WORD 0BRANCH 0006 DROP 1 BRANCH FFE6 ;S

46A7 RPAR: RPAR
4699 LPAR: LPAR
467B -BL: -BL NEXTCHAR BL = 0BRANCH FFF8 NEXTCHAR BL - 0BRANCH FFF8 ;S

4661 SAME-WORD: SAME-WORD COUNT LOOKPTR @ -TEXT 0= ;S

4646 NEXTCHAR: NEXTCHAR LOOKPTR 1 OVER +! @ C@ ;S

4638 LOOKPTR: LOOKPTR
4625 I6: I6 LOOK1 LIT 0005 + L ;S

4616 I3: I3 LOOK1 2+ L ;S

4603 I5: I5 LOOK1 LIT 0004 + L ;S

45F4 I2: I2 LOOK1 1+ L ;S

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45E3 I4: I4 LOOK1 3 + L ;S
45D6 I1: I1 LOOK1 L ;S
45B6 SUMMARIZE: SUMMARIZE LOOKS 0 (DO) I 1+ SUM (LOOP) FFF8 ;S
4594 SUM: SUM 1 - DUP LOOK1 + SWAP 2 * SEEN + @ (SUM) ;S
454D (SUM): (SUM) DUP LIT 0014 + HOME (".") 03 ( " OVER . DUP . (".") 0A INDEX )
;S" INDEX CV C@ LIT 0016 < 0BRANCH 0004 QUIT LOAD-BUFFER UPDATE ;S
4538 SEEN: SEEN
452C LOOKS: LOOKS
4520 LOOK1: LOOK1
4505 ":" : " <BUILDS LIT 0022 WORD HERE C@ 1+ ALLOT DOES> ;S
44E7 CTRL-: CTRL- INPTR C@ LIT 0040 - 1 IN +! LITERAL ;S
44D3 ": " INPTR C@ 1 IN +! LITERAL ;S
44AD INPTR: INPTR BLK @ -DUP 0BRANCH 0008 BLOCK BRANCH 0006 TIB @ IN @ + ;S
446F FORGET: FORGET TASTE 0BRANCH 000D (".") 02 - " FORGET BRANCH 0022 BL WORD BL
K @ 0= 0BRANCH 0014 (".") 01 " HERE COUNT TYPE (".") 03 ? " KEY ;S
4457 TASTE: TASTE IN @ EXISTS SWAP IN ! ;S
4438 EXISTS: EXISTS -FIND 0BRANCH 000C DROP DROP 1 BRANCH 0004 0 ;S
4424 -->: --> ?TERMINAL 0BRANCH 0004 QUIT --> ;S
43F4 LOAD: LOAD >R ?STACK R> 1 WARNING ! ?TERMINAL 0BRANCH 0004 QUIT (".") 01 [ "
LOAD LIT 0008 EMIT (".") 02 ] " ;S
43EB S0: S0
43DF `: ` ( ` ) LITERALW ;S
43CB ( ` ): ( ` ) -FIND 0= 0 ?ERROR DROP ;S
43BC >V: >V CONTEXT ! DEFINITIONS ;S
43AF V>: V> CURRENT @ ;S
4392 LITERALW: LITERALW STATE @ 0BRANCH 0008 COMPILE LITW 116A ;S
437D LITW: LITW R @ R> 2+ >R ;S
436F #2!: #2! B/DSK OFFSET! ;S
4361 #1!: #1! 0 OFFSET! ;S
4341 OFFSET!: OFFSET! OFFSET @ - -DUP 0BRANCH 0008 FLUSH OFFSET +! ;S
4334 #2: #2 B/DSK + ;S
4328 B/DSK: B/DSK
3D39 TASK: TASK ;S
3D00 SEARCH: SEARCH 1+ SWAP (DO) I DUP SCOPY SRCH EFL @ 0BRANCH 000A EDIT LEAVE
BRANCH 0004 DROP (LOOP) FFE4 LIT 0017 0 VHTAB ;S
3CA1 SRCH: SRCH 0 EFL ! LIT 0018 0 (DO) I DUP BCALC LIT 0028 0 (DO) I OVER + #CH
RS @ SLINE -TEXT 0= 0BRANCH 001A OVER I VHTAB KEY LIT 0045 = 0BRANCH 0008 1 EFL
! (LOOP) FFD2 DROP DROP (LOOP) FFBC ;S
3C90 ST: ST SLINE #CHRS @ TYPE ;S

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3C73 SW: SW CR (".") 05 WORD?" SLINE LIT 0028 EXPECT COUNT-CHRS ;S

3C38 COUNT-CHRS: COUNT-CHRS 0 #CHRS ! SLINE DUP C@ 0BRANCH 001C DUP C@ LIT 0080
OR OVER C! 1+ 1 #CHRS +! BRANCH FFE0 ;S

3C2E EFL: EFL
3C22 #CHRS: #CHRS
3BEE SLINE: SLINE
3BA3 SCAN: SCAN CR LIT 0020 0 (DO) LIT 0007 SPACES I DUP LIT 0040 + EMIT LIT 000
7 SPACES 2 * CTRL + @ 2+ NFA ID. CR ?TERMINAL 0BRANCH 0004 LEAVE (LOOP) FFCC ;S

3B96 EDIT: EDIT EDIT ;S

342A EDITOR: EDITOR
341A MON: MON LIT FF69 CALL ;S

3407 DEMO: DEMO EMPTY-BUFFERS LIT 0070 LOAD ;S

33A7 : LIT 0016 0 VHTAB SLOT @ PR CR LIT 7FFF BUFFER DUP LIT 0018 0 (DO) DUP I
BSTR LIT 0028 + (LOOP) FFF2 DROP LIT 0018 0 (DO) CR DUP LIT 0028 -TRAILING TYPE
LIT 0028 + (LOOP) FFEC DROP CR 0 PR ;S

337C LS: LS 1+ SWAP (DO) CR I LIST I 2 MOD 0BRANCH 0008 LIT 000C EMIT (LOOP) FFE
8 CR ;S

3362 VLINE: VLINE
3348 HLINE: HLINE
332F SCR N: SCR N
331C PLOT: PLOT
330A COLOR: COLOR
32DD TEXT: TEXT LIT 0017 LIT 0025 C! LIT 1800 LIT 0022 ! LIT 2800 LIT 0020 ! (TX
T) CR ;S

32B6 GR: GR (GR) LIT C053 C@ LIT C056 C@ LIT 0014 LIT 0022 C! DROP DROP CLEAR ;S

3294 CLEAR: CLEAR LIT 0014 0 (DO) I BCALC LIT 0028 ERASE (LOOP) FFF4 ;S

3278 (TXT): (TXT) LIT C051 C@ LIT C054 C@ DROP DROP ;S

3259 (GR): (GR) LIT C050 C@ DROP LIT 0017 LIT 0025 C! CR ;S

323F L: L DUP SCR ! SCOPY LIT 0016 0 VHTAB QUIT ;S

3213 SCOPY: SCOPY BLOCK DUP LIT 0018 0 (DO) I SBTR LIT 0028 + DUP (LOOP) FFF2 DR
OP DROP ;S

31EE BSTR: BSTR
31C9 SBTR: SBTR
3169 CODE: CODE ?EXEC CREATE SMUDGE ASSEMBLER MEM !CSP LATEST PFA DUP 2 - ! ;S

2B78 ASSEMBLER: ASSEMBLER
2B65 RAND: RAND URAND U* SWAP DROP ;S

2B3F URAND: URAND RSEED @ LIT 2725 U* LIT 3947 S->D D+ DROP DUP RSEED ! ;S

2B33 RSEED: RSEED
2AC9 BUFFERS: BUFFERS FLUSH LIMIT @ HERE LIT 0200 + - LIT 0404 / MIN 1 MAX LIT 0
404 * LIMIT @ SWAP - FIRST ! FIRST @ DUP USE ! DUP PREV ! DUP LIT 0022 +ORIGIN !
DUP LIT 0026 +ORIGIN ! LIT 0028 +ORIGIN ! EMPTY-BUFFERS ;S

2A75 BACKUP: BACKUP OVER OVER SWAP - LIT 0404 * FIRST @ + LIMIT @ U< 0= 0BRANCH
0015 CR (".") 08 TOO MANY" DROP DROP QUIT EMPTY-BUFFERS 1+ SWAP (DO) I BLOCK UPDA
TE DROP (LOOP) FFF6 ;S

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2A40 DUMP: DUMP BASE C@ >R HEX OVER + SWAP (DO) I .ROW ?TERMINAL 0BRANCH 0004 LE
AVE LIT 0008 (+LOOP) FFE6 R> BASE C! ;S

2A2D .ROW: .ROW CR .ADDRESS .VALUES .ASCII ;S

29F8 .ASCII: .ASCII DUP LIT 0008 + SWAP (DO) I C@ DUP LIT 0021 < 0BRANCH 0008 DR
OP LIT 002E EMIT (LOOP) FFE6 ;S

29CE .VALUES: .VALUES DUP LIT 0008 + OVER (DO) I C@ 3 .R (LOOP) FFF6 SPACE SPACE
;S

29B7 .ADDRESS: .ADDRESS DUP LIT 0005 U.R ;S

2939 SAVETURNKEY: SAVETURNKEY Y/NQUERY LIT 14C1 LFA DUP @ 0BRANCH 0016 DUP @ PFA
LFA SWAP 0 SWAP ! BRANCH FFE6 LIT 19F8 LIT 0021 + LATEST PFA CFA OVER ! LIT 091
5 CFA OVER 2+ ! LIT FFFC SWAP LIT 0004 + ! CR (".") 0B INSERT DISK" KEY DROP SAVE
SYSTEM BRANCH FF E8 ;S

2927 &KA: &KA
290F &VRD: &VRD
28D2 INITIALIZEDISK: INITIALIZEDISK Y/NQUERY &RWTS-FMT LIT 7FFF BUFFER DUP LIT 0
400 BLANKS LIT 008C 0 (DO) DUP I 0 &R/W (LOOP) FFF6 DROP ;S

28B5 SAVESYSTEM: SAVESYSTEM FORTH DEFINITIONS REBOOT &SIZE &DUMP-RWTS &DUMP-FORT
H ;S

288F &SIZE: &SIZE PAD 0 +ORIGIN - LIT 0100 /MOD SWAP 0BRANCH 0004 1+ SECTORS C!
;S

286F &DUMP-FORTH: &DUMP-FORTH SECTORS C@ 0 +ORIGIN 0 &KA &DISK-DUMP ;S

2850 &DUMP-RWTS: &DUMP-RWTS LIT 000A LIT B600 0 0 &DISK-DUMP ;S

27CB &DISK-DUMP: &DISK-DUMP 0 &DRV DROP LIT B7ED C! LIT B7EC C! LIT B7F0 ! 2 LIT
B7F4 C! &RWTS -DUP 0BRANCH 0004 ERRMSG LIT B7F1 C@ 1+ LIT B7F1 C! LIT B7ED C@ 1
+ DUP LIT 0010 = 0BRANCH 0014 LIT B7EC C@ 1+ LIT B7EC C! DROP 0 LIT B7ED C! 1 -
DUP 0 = 0BRANCH FFB0 DROP ;S

2746 &RWTS-FMT: &RWTS-FMT 0 &DRV DROP 1 LIT B7EB C! LIT 0004 LIT B7F4 C! CR CR (
".") 0D FORMATTING..." CR CR &RWTS 0BRANCH 002D LIT FE80 CALL LIT 0087 EMIT (".")
10 FORMATTING ERROR" LIT FE84 CALL QUIT BRANCH 0016 (".") 0F INITIALIZING..." CR
;S

2738 SECTORS: SECTORS
2726 GET: GET EMPTY-BUFFERS LIT 0020 LOAD ;S

2715 LOAD: LOAD DUP . LOAD ;S

2700 LK: LK ^ + @ 2+ NFA ID. ;S

26DB JOIN: JOIN ^ ^ OVER OVER > 0BRANCH 0004 SWAP LFA SWAP NFA SWAP ! ;S

266B VLIST: VLIST QUIT OUT ! CONTEXT @ @ DUP C@ LIT 0020 AND 0= 0BRANCH 0032 DU
P C@ LIT 001F AND LIT 0004 + OUT @ + C/L @ > 0BRANCH 000A CR 0 OUT ! DUP ID. SPA
CE SPACE PFA LFA @ DUP 0= ?TERMINAL OR 0BRANCH FFB0 DROP CR ;S

263B INDEX: INDEX CR 1+ SWAP (DO) CR I 3 .R SPACE 0 I .LINE ?TERMINAL 0BRANCH 00
04 LEAVE (LOOP) FFE6 ;S

25D9 LIST: LIST CR DUP SCR ! (".") 06 SCR # " . CR C/L @ LIT 0028 = 0BRANCH 000A
LIT 0018 BRANCH 0006 LIT 0010 0 (DO) CR C/L @ LIT 0028 - 0BRANCH 000A I 3 .R SPA
CE I SCR @ .LINE (LOOP) FFDE ;S

25A7 VHTAB: VHTAB LIT 0027 MIN 0 MAX LIT 0024 C! LIT 0017 MIN 0 MAX LIT 0025 C!
LIT FC22 CALL ;S

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2560 Y/NQUERY: Y/NQUERY CR (".") 14 ARE YOU SURE? (Y/N):" KEY DUP EMIT LIT 0059 =
0= 0BRANCH 000F (".") 08 ABORTED" QUIT ;S

2507 WHERE: WHERE DUP B/SCR / DUP SCR ! (".") 06 SCR # " . SWAP C/L @ /MOD C/L @
* ROT BLOCK + CR C/L @ 1 - TYPE CR HERE C@ - SPACES LIT 005E EMIT 0 0 QUIT ;S

24D9 IND: IND DUP 0BRANCH 0014 LIT 00C0 + LIT 0100 * ?CARD BRANCH 0008 DROP LIT
FD1B LIT 0038 ! ;S

24AC PR: PR DUP 0BRANCH 0014 LIT 00C0 + LIT 0100 * ?CARD BRANCH 0008 DROP LIT FD
F0 LIT 0036 ! ;S

2484 ?CARD: ?CARD DUP @ OVER @ - 0BRANCH 0010 CR (".") 07 NO CARD" QUIT ;S

2477 D=: D= D- D0= ;S

2469 D0=: D0= OR 0= ;S

245C D?: D? 2@ D. ;S

2443 DMAX: DMAX 2OVER 2OVER D< 0BRANCH 0004 2SWAP 2DROP ;S

242A DMIN: DMIN 2OVER 2OVER D> 0BRANCH 0004 2SWAP 2DROP ;S

241D D>: D> 2SWAP D< ;S

240C D<: D< D- 0< SWAP DROP ;S

23FF D-: D- DMINUS D+ ;S

23E8 2ROT: 2ROT LIT 0006 ROLL LIT 0006 ROLL ;S

23D0 2SWAP: 2SWAP LIT 0004 ROLL LIT 0004 ROLL ;S

23C1 2DUP: 2DUP OVER OVER ;S

23A9 2OVER: 2OVER LIT 0004 PICK LIT 0004 PICK ;S

2399 2DROP: 2DROP DROP DROP ;S

2373 -->: --> ?LOADING 0 IN ! B/SCR BLK @ OVER MOD - BLK +! BLK ? ;S

2367 ? : ? @ . ;S

235B .: . S->D D. ;S

234A .R: .R >R S->D R> D.R ;S

233D U.: U. 0 D. ;S

232D U.R: U.R 0 SWAP D.R ;S

231E D.: D. 0 D.R SPACE ;S

22FA D.R: D.R >R SWAP OVER DABS <# #S SIGN #> R> OVER - SPACES TYPE ;S

22E3 #S: #S # OVER OVER OR 0= 0BRANCH FFF4 ;S

22B9 #: # BASE @ M/MOD ROT LIT 0009 OVER < 0BRANCH 0008 LIT 0007 + LIT 0030 + HO
LD ;S

22A0 SIGN: SIGN ROT 0< 0BRANCH 0008 LIT 002D HOLD ;S

2289 #>: #> DROP DROP HLD @ PAD OVER - ;S

227A <#: <# PAD HLD ! ;S

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2259 SPACES: SPACES 0 MAX -DUP 0BRANCH 000C 0 (DO) SPACE (LOOP) FFFC ;S

221A &R/WSECT: &R/WSECT MINUS 2+ LIT B7F4 ! DUP LIT 022F > 0BRANCH 0014 LIT 008C
&DRV DROP LIT 0230 - BRANCH 0008 0 &DRV DROP &I/O ;S

21AB FORGET: FORGET ^ NFA DUP FENCE @ U< LIT 0015 ?ERROR >R VOC-LINK @ R OVER U<
0BRANCH 0012 FORTH DEFINITIONS @ DUP VOC-LINK ! BRANCH FFE8 DUP LIT 0004 - PFA
LFA @ DUP R U< 0BRANCH FFF2 OVER 2 - ! @ -DUP 0= 0BRANCH FFD8 R> DP ! ;S

2197 ^: ^ -FIND 0= 0 ?ERROR DROP LITERAL ;S

2187 WHILE: WHILE IF 2+ ;S

2166 ELSE: ELSE 2 ?PAIRS COMPILE BRANCH 114E 0 , SWAP 2 ENDIF 2 ;S

2151 IF: IF COMPILE 0BRANCH 114E 0 , 2 ;S

2134 REPEAT: REPEAT >R >R AGAIN R> R> 2 - ENDIF ;S

211E AGAIN: AGAIN 1 ?PAIRS COMPILE BRANCH 207B ;S

2112 END: END UNTIL ;S

20FC UNTIL: UNTIL 1 ?PAIRS COMPILE 0BRANCH 207B ;S

20E6 +LOOP: +LOOP 3 ?PAIRS COMPILE (+LOOP) 207B ;S

20D1 LOOP: LOOP 3 ?PAIRS COMPILE (LOOP) 207B ;S

20C0 DO: DO COMPILE (DO) HERE 3 ;S

20B3 THEN: THEN ENDIF ;S

2097 ENDIF: ENDIF ?COMP 2 ?PAIRS HERE OVER - SWAP ! ;S

2085 BEGIN: BEGIN ?COMP HERE 1 ;S

2074 BACK: BACK HERE - , ;S

205F MYSELF: MYSELF LATEST PFA CFA , ;S

2032 REBOOT: REBOOT VOC-LINK @ LIT 0020 +ORIGIN ! HERE LIT 001E +ORIGIN ! LATEST
LIT 000C +ORIGIN ! ;S

201E <<COMPILE>>: <<COMPILE>> [COMPILE] ;S

2000 [COMPILE]: [COMPILE] -FIND 0= 0 ?ERROR DROP CFA , ;S

1F70 &R/W: &R/W MINUS 2+ LIT B7F4 C! DUP DISKMAX @ > OVER 0< OR 0BRANCH 001E CR
(.) 11 DISK RANGE ERROR " . DROP QUIT &DRV CLIT 04 * OVER OVER &I/O OVER LIT 01
00 + OVER 1+ &I/O OVER LIT 0200 + OVER 2+ &I/O SWAP LIT 0300 + SWAP 3 + &I/O ;S

1F3E &I/O: &I/O SWAP LIT B7F0 ! CLIT 10 0 SWAP U/ LIT B7EC C! LIT B7ED C! &RWTS
-DUP 0BRANCH 0004 ERRMSG ;S

1F0A &DRV: &DRV DUP LIT 008B > 0BRANCH 000E LIT 008C - DRIVE2 BRANCH 0004 DRIVE1
@ LIT B7E9 ! &VRD ;S

1EFD DRIVE2: DRIVE2
1EF0 DRIVE1: DRIVE1
1EA4 ERRMSG: ERRMSG CR CLIT 87 EMIT CLIT 10 = 0BRANCH 001C (.) 13 WRITE PROTECT
ERROR" BRANCH 0013 (.) 0E DISK I/O ERROR" CR QUIT ;S

1E81 CALL: CALL
1E62 &RWTS: &RWTS

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1DE1 LOAD: LOAD BLK @ >R IN ! B/SCR * BLK ! INTERPRET R> IN ! R> BLK !
;S

1D8B MESSAGE: MESSAGE WARNING @ 0BRANCH 0025 -DUP 0BRANCH 001B DUP 1 - CLIT 17 /
+ CLIT 18 /MOD CLIT 8B + .LINE BRANCH 001F -DUP 0BRANCH 0019 (".") 06 MSG # " BA
SE @ DECIMAL SWAP . BASE ! ;S

1D79 .LINE: .LINE (LINE) -TRAILING TYPE ;S

1D52 (LINE): (LINE) >R C/L @ B/BUF */MOD R> B/SCR * + BLOCK + C/L @ ;S

1CEE BLOCK: BLOCK OFFSET @ + >R PREV @ DUP @ LIT 7FFF AND R - 0BRANCH 6836 0= 0
BRANCH 0014 DROP R BUFFER DUP R 1 &R/W 2 - DUP @ LIT 7FFF AND R - 0= 0BRANCH FFD
4 DUP PREV ! R> DROP 2+ ;S

1CCA EMPTY-BUFFERS: EMPTY-BUFFERS FIRST @ LIMIT @ OVER - ERASE FLUSH ;S

1CA2 FLUSH: FLUSH PREV @ DUP USE ! 2+ LIT 7FFF BUFFER OVER = 0BRANCH FFF4 DROP ;
S

1C53 BUFFER: BUFFER USE @ +BUF 0= 0BRANCH 9306 DROP DUP >R USE ! R @ 0< 0BRANC
H 0014 R 2+ R @ LIT 7FFF AND 0 &R/W R ! R PREV ! R> 2+ ;S

1C43 DR0: DR0 0 OFFSET ! ;S

1C24 UPDATE: UPDATE PREV @ @ LIT 8000 OR PREV @ ! ;S

1BF8 +BUF : +BUF LIT 0404 + DUP LIMIT @ = 0BRANCH 0008 DROP FIRST @ DUP PREV @
- ;S

1BDA M/MOD: M/MOD >R 0 R U/ R> SWAP >R U/ R> ;S

1BCB */: */ */MOD SWAP DROP ;S

1BB7 */MOD: */MOD >R M* R> M/ ;S

1BA9 MOD: MOD /MOD DROP ;S

1B9B /: / /MOD SWAP DROP ;S

1B88 /MOD: /MOD >R S->D R> M/ ;S

1B7C *: * U* DROP ;S

1B55 M/: M/ OVER >R >R DABS R ABS U/ R> R XOR +- SWAP R> +- SWAP ;S

1B38 M*: M* OVER OVER XOR >R ABS SWAP ABS U* R> D+- ;S

1B20 MAX: MAX OVER OVER < 0BRANCH 0004 SWAP DROP ;S

1B08 MIN: MIN OVER OVER > 0BRANCH 0004 SWAP DROP ;S

1AF9 DABS: DABS DUP D+- ;S

1AEB ABS: ABS DUP +- ;S

1AD9 D+-: D+- 0< 0BRANCH 0004 DMINUS ;S

1AC8 +-: +- 0< 0BRANCH 0004 MINUS ;S

1AB7 S->D: S->D DUP 0< MINUS ;S

1A71 COLD: COLD
1A57 COLD1: COLD1 SP! EMPTY-BUFFERS 1 SLOT ! HOME ABORT ;S

1A48 HOME: HOME

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19EE ABORT: ABORT SP! DROP 0 DECIMAL DR0 FORTH DEFINITIONS LIT 0804 LIT 03F2 ! C
LIT AD LIT 03F4 C! JOT BRANCH FFFC 00,, |e
|e
&

AB SP! EMPTY-BUFFERS 1 SLOT ! HOME ABORT ;S

19BF QUIT: QUIT 0 BLK ! [RP! CR QUERY INTERPRET STATE @ 0= 0BRANCH 0008 (".) 03 OK" BRANCH FFE6 ;S

19B2 (: (CLIT 29 WORD ;S

1998 DEFINITIONS: DEFINITIONS CONTEXT @ CURRENT ! ;S

1986 FORTH: FORTH

1951 VOCABULARY: VOCABULARY <BUILDS LIT A081 , CURRENT @ CFA , HERE VOC-LINK @ , VOC-LINK ! DOES> 2+ CONTEXT ! ;S

193A IMMEDIATE: IMMEDIATE LATEST CLIT 40 TOGGLE ;S

18EA INTERPRET: INTERPRET -FIND 0BRANCH 001E STATE @ < 0BRANCH 000A CFA , BRANCH 0006 CFA EXECUTE ?STACK BRANCH 001C HERE NUMBER DPL
@ 1+ 0BRANCH 0008 DLITERAL BRANCH 0006 DROP LITERAL ?STACK BRANCH FFC2 @a


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e
@a LATEST CLIT 40 TOGGLE ;S

18B0 ?STACK: ?STACK CLIT BB SP@ < 0BRANCH 0018 (".") 0B EMPTY STACK" SP! DROP 0 Q
UIT SP@ CLIT 50 < CLIT 07 ?ERROR ;S

1893 DLITERAL: DLITERAL STATE @ 0BRANCH 0008 SWAP LITERAL LITERAL ;S

1877 LITERAL: LITERAL STATE @ 0BRANCH 0008 COMPILE LIT 116A ;S

17DB CREATE: CREATE FIRST @ HERE CLIT A0 + U< 2 ?ERROR -FIND 0BRANCH 002E DROP W
ARNING @ LIT FFFF = 0BRANCH 0008 DROP BRANCH 0018 NFA ID. (".") 0F ISN'T UNIQUE
" HERE DUP C@ DUP 0= CLIT 09 ?ERROR WIDTH @ MIN 1+ ALLOT DP C@ CLIT FD = 0BRANC
H 0006 BL C, DUP CLIT 80 TOGGLE HERE 1 - CLIT 80 TOGGLE LATEST ,
CURRENT @ ! LIT 0F21 , ;S

17AA ID.: ID. PAD CLIT 20 CLIT 5F FILL DUP PFA LFA OVER - PAD SWAP CMOVE PAD CO
UNT CLIT 1F AND TYPE SPACE ;S

176F ERROR: ERROR WARNING @ 0< 0BRANCH 0008 DROP BRANCH 0021 HERE COUNT TYPE (".
") 04 ? " MESSAGE SP! DROP DROP IN @ BLK @ QUIT ;S

175F (ABORT): (ABORT) ABORT ;S

171B -FIND: -FIND BL WORD BL HERE COUNT + C! HERE CONTEXT @ @ (FIND) DUP 0= 0BRA
NCH 001A CONTEXT @ @ LATEST = 0= 0BRANCH 000A DROP HERE LATEST (FIND) ;S

16C4 NUMBER: NUMBER 0 0 ROT DUP 1+ C@ CLIT 2D = DUP >R + LIT FFFF DPL ! (NUMBER)
DUP C@ BL - 0BRANCH 0015 DUP C@ CLIT 2E - 0 ?ERROR 0 BRANCH FFDD DROP R> 0BRANC
H 0004 DMINUS ;S

1677 (NUMBER): (NUMBER) 1+ DUP >R C@ BASE @ DIGIT 0BRANCH 002C SWAP BASE @ U* DR
OP ROT BASE @ U* D+ DPL @ 1+ 0BRANCH 0008 1 DPL +! R> BRANCH FFC6 R> ;S

1629 WORD: WORD BLK @ 0BRANCH 000C BLK @ BLOCK BRANCH 0006 TIB @ IN @ + SWAP ENC
LOSE HERE CLIT 22 BLANKS IN +! OVER - >R R HERE C! + HERE 1+ R> 1+ CMOVE ;S

1618 PAD: PAD HERE CLIT 44 + ;S

15FF HOLD: HOLD LIT FFFF HLD +! HLD @ C! ;S

15EE BLANKS: BLANKS BL FILL ;S

15DE ERASE: ERASE 0 FILL ;S

15C2 : BLK @ 0BRANCH 000A 0 IN ! ?EXEC R> DROP ;S

15A7 QUERY: QUERY TIB @ CLIT 50 EXPECT 0 IN ! ;S

14B6 EXPECT: EXPECT OVER + OVER (DO) KEYESC[ DUP CLIT 15 = 0BRANCH 003D DROP CH
C@ CV C@ BCALC + C@ CLIT 3F AND DUP CLIT 1D < 0BRANCH 0007 CLIT 40 OR LIT FBF4 C
ALL I C! 0 I 1+ ! BRANCH 0090 DUP CLIT 08 = 0BRANCH 002B DROP CLIT 08 OVER I = D
UP 0BRANCH 0008 0 I ! DUP R> 2 - + >R - BRANCH 005A DUP CLIT 0D
= 0BRANCH 0013 0 I ! DROP CLIT 20 LEAVE BRANCH 003E DUP CLIT 18 = 0BRANCH 0025 D
ROP 0 OVER C! 0 OVER 1+ C! CLIT 58 EMIT CLIT 58 EMIT CLIT 58 LEAVE BRANCH 0010 D
UP I C! 0 I 1+ ! EMIT (LOOP) FF2 8 DROP ;S

1488 .": ." CLIT 22 STATE @ 0BRANCH 0014 COMPILE (".") 30 NV
2^0N7

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P
:
u
X SEARCHSCOPY\F98\%g&h 1 w;}F98`%g&h 1

P8`%IX P w;}F98`%g&h 1 AND DUP CLIT 1D <
 OBRANCH 0007 CLIT 40 OR LIT FBF4 CALL IC! 0 I 1+ ! BRANCH 0090 DUP CLIT 08 = 0
 BRANCH 002B DROP CLIT 08 OVER I = DUP OBRANCH 0008 0 I ! DUP R> 2 -
 + >R - BRANCH 005A DUP CLIT 0D = OBRANCH 0013 0 I ! DROP CLIT 20 LEAVE BRANCH
 003E DUP CLIT 18 = OBRANCH 0025 DROP 0 OVER C! 0 OVER 1+ C! CLIT 58 EMIT CLIT 58
 EMIT CLIT 58 LEAVE BRANCH 0010 DUP I C! 0 I 1+ ! EMIT (LOOP) FF28 DROP ;S 146D
 (".) : (".) R COUNT DUP 1+ R> + >R TYPE ;S 1435 -TRAILING: -TRAIL
 ING DUP 0 (DO) OVER OVER + 1 - C@ BL - OBRANCH 0008 LEAVE BRANCH 0006 1 - (LOOP)
 FFE0 ;S 140C TYPE: TYPE -DUP OBRANCH 0018 OVER + SWAP (DO) I C@ EMIT (LOOP) FFF
 8 BRANCH 0004 DROP ; S 13F8 COUNT: COUNT DUP 1+ SWAP C@ ;S 13C6 D
 OES>: DO _H18{H18H|18* LI^hh@Bp;uhvh8h9 YH* 006 1 - (LOOP) F 1*plv YU
 LX&/i&0 _DUP 1+ SWAP C@ ;S 13B4 <BUILDS: <BUILDS 0 CONSTANT ;S
 139E ;CODE: ;CODE ?CSP COMPILE (;CODE) [ASSEMBLER ;S 1386 (;CODE): (;CODE) R> L
 ATEST PFA CFA ! ;S 1371 DECIMAL: DECIMAL CLIT 0A BASE ! ;S 1360 HEX: HEX CLIT 10
 BASE ! ;S 134C SMUDGE: SMUDGE LATEST CLIT 20 TOGGLE ;S 133D]:] CL
 IT C0 STATE ! ;S 132F [: [0 STATE ! ;S 1313 COMPILE: COMPILE ?COMP R> DUP 2
 + >R @ , ;S 12F9 ?LOADING: ?LOADING BLK @ 0= CLIT 16 ?ERROR ;S 12E1 ?CSP: ?CSP S
 P@ CSP @ - CLIT 14 ?ERROR ;S 12CD ?PAIRS: ?PAIRS - CLIT 13 ?ERROR ;S 12B8 ?EXEC:
 ?EX EC STATE @ CLIT 12 ?ERROR ;S 12A1 ?COMP: ?COMP STATE @ 0= CL
 IT 11 ?ERROR ;S 1286 ?ERROR: ?ERROR SWAP OBRANCH 0008 ERROR BRANCH 0004 DROP ;S
 1275 !CSP: !CSP SP@ CSP ! ;S 1262 PFA: PFA 1 TRAVERSE CLIT 05 + ;S 124D NFA: NFA
 CLIT 05 - LIT FFFF TRAVERSE ;S 123F CFA: CFA 2 - ;S 1230 LFA: L
 FA CLIT 04 - ;S 121D LATEST: LATEST CURRENT @ @ ;S 11F7 TRAVERSE: TRAVERSE SWAP
 OVER + CLIT 7F OVER C@ < OBRANCH FFF1 SWAP DROP ;S 11DC U<: U< >R 0 R> 0 DMINUS
 D+ SWAP DROP 0< ;S 11C9 -DUP: -DUP D UP OBRANCH 0004 DUP ;S 11B9
 SPACE: SPACE BL EMIT ;S 11AB ROT: ROT 3 ROLL ;S 119F >: > SWAP < ;S 1193 =: = -
 0= ;S 1187 -: - MINUS + ;S 1176 C,: C, HERE C! 1 ALLOT ;S 1166 ,: , HERE ! 2 ALL
 OT ;S 1156 ALLOT: ALLOT DP +! ;S 1147 HERE: HERE DP @ ;S 113A 2+
 : 2+ 2 + ;S 112D 1+: 1+ 1 + ;S 1120 DISKMAX: DISKMAX SLOT: SLOT HLD: HLD R#: R#
 C CSP: CSP 3 FLD: FLD A DPL: DPL 0 BASE: BASE 5 STATE: STATE 8 CURRENT: CURRENT
 B CONTEXT: CONTEXT F OFFSET: OFFSET 6 SCR: SCR OUT: OUT IN: IN BL
 K: BLK C/L: C/L PREV: PREV USE: USE LIMIT: LIMIT FIRST: FIRST VOC-LINK: VO
 C-LINK DP: DP FENCE: FENCE WARNING: WARNING WIDTH: WIDTH TIB: TIB CV: CV CH: C
 H F2 +ORIGIN: +ORIGIN LIT 0800 + ;S 0FE6 B/SCR: B/SCR DA B/BUF: B/BUF D1 BL: BL
 PACE BL EMIT 119F >: > SWAP < ;S 119 C,: CONTEXT F O FFSET:
 7 HERE: HERE DP @ ;S 113A 2+:AX: DISKMAXWARNING: WARNING WIDTH: WIDTHIGIN LIT 08
 A 9

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H 10`)?*H): m}) m}1
p` \ % ZpLI(HLD R#: R# IT 0800 + ;S XW 0F73 2CONSTANT: 2CONSH18{H18H|18* 10L
NING: WARNING WIDTH: C9 3: 3 C1< WHEX%H8i%H i 10hh U
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0F5F 2VARIABLE: 2VARIABLE VARIABLE , ;S

0F46 2!: 2!

0F2D 2@: 2@

0F10 VARIABLE: VARIABLE CONSTANT (;CODE) kd7

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LE , ;S				VARIAB

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LE , ;S

0EE5 EMIT: EMIT (EMIT) ;S

0ED3 ;: ; ?CSP COMPILE ;S

\$8\$0 p9L/> H%/ Hhp) Pa 1 ,9u!9u 9]235dxLJ PLOT
9FX lplv YULX&/ (EMIT) ;S

0E7E BCALC: BCALC

0E4D -TEXT: -TEXT

0E25 ROLL: ROLL

0E11 PICK: PICK

0DF8 C!: C!

0DE1 !: !

0DD1 C@: C@

0DBD @: @

0DA9 TOGGLE: TOGGLE

0D8C +!: +!

0D7C DUP: DUP

0D63 SWAP: SWAP

0D5A DROP: DROP

0D49 OVER: OVER

0D30 DMINUS: DMINUS

0D18 MINUS: MINUS

0CF5 D+: D+

0CDD +: +

0CC0 <: <

0CAE 0<: 0<

0C99 0=: 0=

0C84 R: R

0C72 R>: R>

0C60 >R: >R

0C42 LEAVE: LEAVE

0C32 ;S: ;S

0C1D RP!: RP!

0C0D SP!: SP!

0BFE SP@: SP@

0BE8 XOR: XOR

0BD3 OR: OR

0BBD AND: AND

0B81 U/: U/

0B49 U*: U*

0B20 FILL: FILL

0AF7 CMOVE : CMOVE

0AEB KEYESC[: KEYESC[

0AE4 CR: CR

0AD6 ?TERMINAL: ?TERMINAL

0ACE KEY: KEY

0AC3 (EMIT): (EMIT)

0A74 ENCLOSE: ENCLOSE

0A05 (FIND): (FIND)

09D5 DIGIT: DIGIT

09CF I: I

09B3 (DO): (DO)

0979 (+LOOP): (+LOOP)

094A (LOOP): (LOOP)

0928 OBRANCH: OBRANCH

090A BRANCH: BRANCH

08F1 EXECUTE: EXECUTE

08D1 CLIT: CLIT

0898 LIT: LIT