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TTT TTT TTT TTT TTT TTT TTT TIT TTT TTT TTT TTT TTT TTT TIT

TTT

```
(DEFFROP DELETE
(LABBDA (A 8)
(PROB NIL
            (PROG NIE

A

(CORD)

((AND B)

(NOT (PATON (COR B)))

(EQUAL A (CADR B)))

(RPLACD B (CDDR B)))

((SETO B (CDR B)) (GO A)))))

EXPR)
           (COND ((GET (DUDIE SY) (DUDIE VALUE)))
((SETG SY NIL)))
           (COND ((AUMBERP (GET (QUOTE SSYM) (QUOTE VALUE)))) ((SETO SSYM 10)))
           (PROG2
(SETS TECO
(LIST
(GUOTE
((D . SD) (R . SR)
(L . SL)
(U . SU)
(IP . SIP)
(IP . SIP)
(IP . SUP)
(J . SJ)
(B . SB)
(SSB . SSB)
(SST . SST)))
(GUOTE
((P . SPP) (I . ST)
(K . SK1)
(K . SK1)
(K . SK1)
(K . SK1)
(S . SS)
(Y . SY)
(UB . SUB)
(T . ST)
(UT . SUT))))
NIL)
           NILL
(COND ((GET (OUGTE SB) (QUOTE BREAK)))
((PUTPROP (QUOTE SB)
(LIST NIL)
(GUOTE BREAK))))
         (COND ((GET (QUOTE ST) (QUOTE TRACE)))
((PUTPROF (QUOTE ST)
(LIST NIL)
                  TOUDTE TRACETIFF
          (OR (GET (WUOTE SK) (GUOTE VALUE))
(SETW SK NIL))
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```
(OR (GET (GUDTE SK) (GUDTE VALUE))

(SETG SK NIL))

(PUTPROP (GUDTE PATOM)
(SUB1 (GET (GUDTE ATOM) (GUDTE SUBR)))

(COND ((GET (GUDTE SB) (GUDTE VALUE)) NIL)

((SETG SB (LIST NIL)))

(DEFPROP IECD
(LAMBDA NIL
(PROG (SB SSI)
C
(ERRSET (SP))
D
(TERPH)
(ERRSET (SETO SS (READ)))
((ERRSET (SETO SS (GEAD)))
((ERRSET (SETO SS (GUDTE DI) (RETURN NIL))
((SETW SSI (ASSUC SS (CAR TECO)))
((CDM SSI)))
((CDM SSI)))
((CDM SSI))
((COND ((ASSUC SS (READ)) (GUDTE X))
(ERR))
(SSI)))
((AND (NOI (ATOM SS))
(SETG SSI
(COND ((ASSOC (GAR SS) (GAR TECO))))
(EVAL
((GONS (CDR SSI) (GUDTEL (CDR SSI))))
(EVAL
((GONS (CDR SSI) (GUDTEL (CDR SSI))))
(EQUAL)
((GONS (CDR SSI) (GUDTEL (CDR SSI))))
(ERRSET (PRINT (EVAL SS))) (ERRI)))
(EXPROG (SETW SK
(LIST SK
(LIST SK
(LIST SK
(LIST SK)
(LOUGTE (EXPR FEXPR MAGRO))))
((EQUAL SU)
(COND ((INUL SU)
(COND (LIST NIL (LUR AI))))
```

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```
(DEFPROP SJ
(LAMSDA NIL
(SY (CAR SY) (CADR SY)))
EXPR)
(DEFPROP SR
(LAMBDA NIL
(COND ((PATOM (CDAR SK)) NIL)
((SETQ SK (CONS (GDAR SK) SK))))
(DEFPROP &D
(LAMADA N)L
(COND
(LOR (NULL (CDAR sK)) (PATOM (CAUAR sK)))
   NIL)
((SETO SD (CONS SK SD))
(SETO SK
(LIST (CONS (QUOTE *SS) (CADAR SK)))))))
EXPR)
 (DEFPROP SL
(LAMBDA NIL
(COND ((COR SK) (SETW SK (CDR SK)))))
 (BEFPROP SU (LAMBDA NIL
     (COND
(&D (SETQ SK (CAR &D))
(SETQ SD (CDR &D))
   1)))
EXPR)
 (DEFPROP SK1
(LAMBDA (SS)
(COND ((EDUAL SS (QUOTE K)) (SK))))
EXPR)
 (DEFPROP SK
(LAMBDA NIL
(COND
(SK
(COND
            ((CDR sk)
(COND
((CDAR sk)
   (RPLACE (CAR SK) (CDLAR SK))))
((SU) (RPLACE (CDAR SK) (CDADAR SK))
(SD)))))
EXPR)
  (DEFPROP SIP
(LAMBDA NIL
(SKI (LIST (CADAR SK))))
EXPR)
 (DEFPROP SDP
(LANSDA NIL
(COND ((PATOM (CADAR SK)))
((MAPC (FUNCTION SI) (CADAR SK)) (SK))))
  (DEFPROP $1
(LAMBDA (A)
(COND
       (COND

(IAND SK A)

(COND

(ICDR SK)

(ICOND (ICDAR SK) (GUOTE RPLACE))

(IGUITE NEONC)))

(CAR SK)

(CONS Å (CDAR SK)))
            (CDNS A (CDAR SK)))
((SR))
((SU)
(RPLACA (CDAR SK) (CONS A (CADAR SK)))
(SR)))))
     EXPRI
   (DEFPROP SKI
(LAMBDA (A)
(PROGZ (SI A)
(SK)))
EXPR)
  (UEFPROP SS
(LAMBDA SS3
((LAMBDA (A SS SU SL)
(PROG NIL
            A ICOND
                ((8819 883)
```

(LIST MIL (COR A))

((SETO SS (GET A SU)) (LIST SU \$5))

(T (PRINT A)

(PRINC (QUOTE / NO/ ))

(PRINC (QUOTE / PROPERTY))

(SETO SY (LIST A SU))

(SETO SD N)L)

(SETO SD N)L)

(ARG 1)

(COND ((EG SS 2) (ARG 2))

(NLL)))

EXPR)

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152 153

198 199

207 206

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(ELS) SA SB3777

SET SK (CAR SS3)7

(SET SK (CAR SS3)7

(OR (SB) (SB) (SB) (SB) (SB) (SB)

(AND (CDR SD) (SB) (SB))7
                             (SO A))
((SET# SK SU) (SET# SD SL)
                 (ARS 1)
(COND ((ES 853 2) (ARS 21)
         1111
SK
SDII
EXPRI
    (DEFPROP 353

(LAMBDA 1A)

(COMD (LEGUAL A (CDAR 5X1) (5U) (5R1)

((WULL (CDAR 5X1)

(COMD (LEG A (GUOTE 7))) (5U) (5R1))

(LEW A (GUOTE 55))

(LEGUAL A (CADAR 5X)) (5R1)

(LEGUAL A (GUOTE 55))

(LEGUAL (GUOTE 55))

(LEGUAL GUOTE 7(1) (5D1)

((PATOM A) %IL)

((PATOM A) %IL)

((AMD A (553) (CAR A))) (3S3 (CBR 41))))
    IDEFPROP SSYM
(LAMBOA (A)
(PHOG (BASE)
(SETW HASE 10)
(METUPN
(MAKNAP
(APPEND (EXPLODE A)
(EXPLODE (BETW SBYM (AUD) SSYM))))));
EXPRI
   (UEPPROP &B
(LAMBUA SB
(PROG (SMB))
(SETU SMB
(COND
((GET (GUOTE RB) (CAR RY)))
(INIERN (SSYM (CAR RY))))
((CAR RY))))
(SETU SB
                  (COND (IGREATERP SH 0) (APG 1))
                (0)))
(SETU SE
(COND (INUMBERP SE) (SNS SEI)
              (DOND (INDRDEPP SB) (SNS 581)
ISB)
I(SNS 0))))
(NCONC (SET (BUDTE SB) (GUCTE BREAK))
(LIST SNS))
(LIST SNS)
(LIST (GUDTE SB)
(LIST (GUDTE SREAK)
SY
(DOND ((CDAR SK) (CADAR SK)))
SK
               501
598)
(5K)
                (LIST (QUOTE SBREAK)
SNB
SB
      EXPRI
(DEFPROP SNB
(LAMBDA (A)
(PRUS (SNB)
(SET SNB)
(SET SNB (INTERN (SSYM (QUOTE BK))))
(SET SNB 1)
(RETURN
(COND ((ZEROP A) SNB)
((LIST (DUOTE GREATERP)
(LIST (QUOTE SET2)
SNB
(LIST (QUOTE ADD1) SNB))
 IDEFPROP SENEAK

ILAMBUK IKNZINGI

(PROD (KBZET DEREAK)

(IDET) KBZET DEREAK)

(ITERPHI)

(PRING (BUDTE BREAK)

(PRING (GUD KKZUGI)

(BEL))

(BEL))

(BEL)

(COUNT (IEMPRI)

(PRING (BUDTE BREAK)

(FRING (BUDTE BREAK)

(FRING (BUDTE BREAK)

(FRING (BUDTE BREAK)

(PRING (BUDTE BREAK)

(PRING (BUDTE BREAK)

(PRING (BUDTE BREAK))

(PRING (BUDTE BREAK)

(PRING (BUDTE BREAK))

(PRING BUDTE BREAK)

(PRING BEREAK)

(PRING BEREAK)

(PRING BEREAK)
 (DEFPROP BELL (LAMBOA NIL
```

(COND (SS) A)
(EO (SETW SS (SUE1 SS); 3))
(LIST SK SD))))

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277 278 279

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(DEFPROP SIL

(LAMBDA SL

(PROG (LL L)

(TERPRI)

(PRINC (QUOTE TRACE/))

(PRINC (QUOTE STRF))

(SETQ L 1)
 401
402
403
404
405
 406
407
406
409
                                                                  A

(CDND ((GREATERP L SL))

(T (SETO LL (APPEND LL (LIST (ARG L))))

(PRINT (ARG L))

(SETO L (ADD1 L))

(GO A))

(PRINT (QUOTE VALUE))

(FRINT (SETO)
 410
411 412 413
 414
410
                                                          (SETO L
(EVAL (CONS (DUOTE STR) (QUOTEL LL)))))
(RETURN L)))
EXPR)
                                                    (DEFPROP STF
(LAMBDA (L)
(PROG (EL)
(TERPHI)
(PRINC (QUOTE TRACE/ ))
(PRINC (QUOTE STRF))
(SETQ LL L)
423
424
425 426 427
428
429
430
431
432
                                                                  (COND
(LL (PRINT (CAR LL))
(SETO LL (CDR LL))
(GO A)))
(PRINT (GUOTE VALUE))
(PRINT (GUOTE VALUE))
 433
 434
 435
                                                          (SETQ L (EVAL (CONS (QUOTE STR) L))))
FEXPR)
  436
 439
 440
441
442
443
                                                      (DEFPRUP ST
(LAMBDA SL
(PROG (SR SS ST SU)
                                                                 A
(COND ((GREATERP SL 0))
((RETURN NIL)))
(SETG SS (ARC SL))
(SETG SL (SUB1 SL))
 446
447
446
449
  450
451
                                                                 ((SETQ SU

(GETL SS

(GUDTE (EXPR SUBR LSUBR ARRAY MACRO))))
(SETTA SR

(GETL (GUDTE STL) (GUDTE (EXPR)))))
(SETA SR

(GETL (SUDTE STE) (GUDTE (FEXPR))))
(SETA SR

(GETL (GUDTE STF) (GUDTE (FEXPR))))
(SETG ST (INTERN (SSYM (GUDTE TRACE))))
(NCOND (GET (GUDTE ST) (GUDTE TRACE)))
(LIST

(LIST SS ST (CAR SR) (CAR SU) (GADR SU)))
(PUTPROP ST (CADR SU) (GAR SU))
(SUBST SS

(SUBST SS

(GUDTE STRE)
(GAR SR))
(GAR SR))
 452
453
454
455
   450
   457
  458
459
460
461
   402
  403
464
465
406
   407
                                                          EXPR)
                                                    (DEFPROP SP
(LAMSDA NIL
(PROG NIL
(TYO 1A)
(PRINT SY)
(COND ((PATON SK))
(T (TERPRI)
```

(PROG (SCHEP) (TERPRI)

(DEFPROP SUB (LAMBDA SNB (PROG (SUB)

EXPR)

-

398 399

A (ERRSET (SETO SOMSP (READ)))
(COND ((EW SOMSP (GUOTE SP)) (RETURN NILI))
(ERMSET (ERRSET (PRINT (EVAL SOMSP))))
((ERPRI)
(GU A)))
EXPR)

PROG (SUB)

A

(COND ((ZEROP SNB) (RETURN NIL))

(T (SETO SUB (ARG SNB))

(SETO SNB (SUB1 SNB))

(EQ (DUOTE BREAK)

(DAR (SETO SSB (GET (GUDTE SB) SUB))))

(DELETE SUB

(GET (GUDTE SB) (GUDTE BREAK))

(REMPROP (GUDTE SB) SUB)

((LAMBDA (SUB SK SD)

(PROG2 (SK1 SUB)

NIL))

(CADDR SSD)

(CADR (CODUR SSB)))))

(GO A)))

(DEFPROP SSH (LAMBDA NIL (MAPC (FUNCTION SUB) (CDR (GET (GUDTE SB) (GUDTE BREAK))))) EXPR)

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PAGE 1.6
                                                                             (RRINI
(COND
(CDR SK)
(COND (CAAR SK)
(COND (WOOTE 185) (CLAR SKI)))
((CAR SK)))))))
                                                               EBEFFROR SST
(LAMBDA NIL
(MAPO (FUNCTION SUT)
(MAPOGAR (FUNCTION CAR)
(CBR (GET (QUOTE ST) (QUOTE TRACE))))))
                  490
                                                                (DEFPROP SUT
(LAMBDA SUT
(PROG (SUB)
                                                                         (COND ((ZEROP SUT) (RETURN NIL))
(IT (SETO SUB (ARG SUT))
(SETO SUB (SUB) (SUT))
(SETO SST
(ASSOC SUB
(SETO ST
(GET (QUOTE ST) (QUOTE TRACE)))))
(DELETE SST ST)
(REMPROP SUB (GADDR SST))
(PUTPROP SUB
(CADDR (CDDR SST))
(CADDDR SST))
(REMOB (CADR SST)))
(GO A)))
XPR)
                  501
                   804
                   507
                   510
                  514
515
516
517
516
                                                                    EXPR)
                                                                  (DEFPROP SPP
                                                                   (DEFPROP SPP
(LAMBDA B
(PROS (SPP A C LINEL LINELI)
(SETQ C O)
(SETQ LINEL 110)
(SETQ LINELI 55)
(TYO 14)
                   519
                  520
521
522
6
                  523
524
525
                  526
527
528
                                                                           (COND ((EQUAL C B) (ERR))
((SETD C (ADD1 C)) (SETG A (ARG C))
(TERPRI)
(TERPRI)
(AND
(SETG SP)
(SETG SP)
                   529
530
531
                                                                                    (GETL A (GUOTE (EXPR FEXPR MACRO))))
(SPP1
(LIST (GUOTE DEFPROP)
                    532
533
534
  0
                    535
                    536
                                                                                          (CADR SPP)
(CAR SPP))
                    538
                    540
                                                                                                                                                                                                                                                                          PAGE 1.9
                                                                     (GO A)))))
EXPR)
                      541
542
543
544
545
                                                                    (DEFPROP SPP1
(LAMBDA (A N TAG)
(COND. ((FII A N) (SPP3 A N TAG) T)
((PAIDM A) (SPP3 A N TAG) NIL)
(T (SSPACE N TAG)
(PRINC (QUOTE /(I)
(SPP2 A (ADDI N))
NIL)))
EXPR)
                                                                      (DEFPROP FIT
                                                                            (LAMBDA (A N)
(GDND
(GREATERP (PLUS N (FLATSIZE A)) LINEL1)
(NL)
((PATOM A) T)
((FINDL
(GUOTE
(LAMBDA PPOG
PROG2
LASEL
CONDI)
A)
                                                                            A)
NIL)
(T)))
EXPR)
                                                                          (DEFPROP FINDL
(LAMBDA (L H)
(COND ((NULL L) NIL)
((PATOM L) (FIND L H))
((FIND (CAR L) H))
((FINDL (COR L) H))))
EXPR)
              0
              0
                                  582
                                                                            (DEFPROP FIND
(LAMBDA (A B)
(COND ((EDUAL A B))
((FATOM B) NIL)
((FIND A (CAP B)))
((FIND A (CDR S))))
               0
                                554
555
565
567
559
                0
                60
                                                                             (DEFPROP SPP2
LLAMBDA (A N)
(PROG (Q)
(SETQ Q (SPP1 (CAR A) N NIL))
                6
                                                                                     (SETG A (CDR A))
(COMB
((NOLL A) (PRING (GUDIE /)))
(RETURN NIL))
```

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```
(GREATERP (ADDI (*DIF LINEL CHRCT)) N))
(PRINC (QUDTE / ))
(GO B)))))
EXPR)
                                 (DEFPROP QUOTEL
(LAMBDA (SS)
(MAPCAR
(FUNCTION
(LAMBDA (SS)
(LIST (QUOTE QUOTE) SS)))
55))
                                  (DEFPROP PFILE
(LAMADA (L)
(PROG (LINEL LINEL1 SXCH)
(SETR SXCH
                                          ((AND (CDDR L) (CDDDR L)) (CADUDR L))))
(SETQ LINEL 110)
(SETQ LINEL 155)
(EVAL (CONS (GUOTE UREAD) L))
(100 G)
                                          A
(COND
((NULL (ERRSET (SET@ L (READ NIL))))
(RETURN NIL))
(T (TERPMI)
(TERPMI)
(SEPPI
(COND (SXCH (SXCH L))
                                                 (COND (SXCH (SXCH L))
                                                (GO A)))))
                                      FEXPRI
                                     IDEFPROP WEILE
                                      (LAMBDA (L)
(PROG ($XCH)
(EVAL
(LIST (QUOTE UWRITE) (CAUR (CDDDDR L))))
                                           (SST)
(SSB)
(100 R)
(EVAL
(LIST (QUOTE PFILE)
(CAR L)
(CADR L)
(CADR L)
(CADR L)
692
693
695
696
696
697
698
701
702
703
704
705
706
                                            (TEGUAL (LENGTH L) 7) (CAR (LAST L)))))
                                       (LIST (QUOTE UFILE)
(CADDDR L)
(CADR (CDDDR L)))))
FEXPR)
                                      (DEFPROP XFILE
(LAMBDA (L)
(EVAL
                                       (CONS (QUOTE WFILE)
(APPEND L (QUOTE (SXCH))))))
FEXPR)
 709
710
711
712
713
714
715
716
717
718
719
720
                                     (DEFPROP SXCH
(LAMBDA (A)
(PROG (SXCH)
(RETURN
(COND ((PATOM A) A)
((EQ (QUOTE DEFPROP) (CAR A))
(LIST (QUOTE DEFPROP)
(COND ((CDR A) (CADR A)))
```

((PATOM A) (TERPRI)
(SSPACE N T)
(PRINC (QUOTE / /./ ))
(TERPRI)
(SP1 A N NIL)
(RETURN NIL))
((AND U

(DEFPROP SPP3 (LAMBDA (A N TAG) (PROG2 (SSPACE N TAG) (PRIN1 A)))

FXPR)

EXPRI

(DEFPROP SSPACE

(COND

(COND

(LAMBDA (N TAG)
(PROG NIL
(COND (TAG)
((RETURN NIL)))
(TERPRI)

(GO A)))

(PRINC (QUOTE / ))

644 

655 656

662 663

665 666

678 679

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((AND 9 (FIT (CAR A) (ADD1 (\*DIF LINEL CHRCT!))) (PRINC (QUOTE /) (SPP3 (CAR A) (\*DIF LINEL CHRCT) NIL)! ((SPP1 (CAR A) N T))) (SETQ Q NIL) (GD A)))

((NOT (GREATERP (PLUS (\*DIF LINEL CHRCT) 10)

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