

File created: 13-Sep-2021 17:12:03 {DSK}<Users>briggs>Projects>medley>sources>LLSUBRS.;8

changes to: (VARS \INITSUBRS)  
(FNS WRITECALLSUBRS)

previous date: 13-Sep-2021 16:07:08 {DSK}<VAR>TMP>LLSUBRS.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

::  
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(RPAQQ **LLSUBRSCOMS**

((DECLARE%: EVAL@COMPILE DONTCOPY (ADDVARS (DONTCOMPILEFNS SUBRCALL MISCN FIX-SUBR-NAME WRITECALLSUBRS))))

::: MISCN Vars & Functions

(EXPORT (VARS \MISCN-TABLE-LIST))  
(FUNCTIONS MISCN)  
(OPTIMIZERS MISCN)  
(FNS MISCN-NUMBER \MISCN.UFN \UNDEFINED-MISCN-UFN MISCN-COLLECT \GET-MY-BF \INIT-MISCN-TABLE)  
(PROP ARGNAMES MISCN)  
(DECLARE%: EVAL@COMPILE DONTCOPY (RECORDS MISCN-UFN-SPEC MISCN-UFN-ENTRY))

::: USER-SUBR Vars & Functions

(EXPORT (VARS \USER-SUBR-LIST))  
(FUNCTIONS USER-SUBR ADD-USER-SUBR)  
(FNS \USER-SUBR-UFN \INIT-USER-SUBR-TABLE \UNDEFINED-USER-SUBR-UFN USER-SUBR-NUMBER EQ-TO-CAR EQ-TO-CADR  
)  
(PROP ARGNAMES USER-SUBR)

::: SUBRCALL Vars & Functions

(EXPORT (VARS \INITSUBRS))  
(FUNCTIONS SUBRCALL)  
(OPTIMIZERS SUBRCALL)  
(FNS SUBRNUMBER)  
:: use this to make a subrs.h file for Maiko  
(FNS WRITECALLSUBRS FIX-SUBR-NAME)  
(PROP ARGNAMES SUBRCALL)  
(DECLARE%: DONTCOPY (RESOURCES UNIXSTRING))  
(INITRESOURCES UNIXSTRING)  
(FNS \MOREVMEMFILE \WRITEMAP \COPYSYSOSUBR \PUPELEVELSTATE SHOWDISPLAY SETSCREENCOLOR \WRITERAWPBI  
\READRAWPBI RAID \LISPFINISH \GETPACKETBUFFER \GATHERSTATS \DSPRATE DSPBOUT DISKPARTITION  
\CHECKBCPLPASSWORD SUSPEND-LISP UNIX-USERNAME UNIX-FULLNAME UNIX-GETENV UNIX-GETPARM)  
(IFPROP ARGNAMES SHOWDISPLAY SETSCREENCOLOR \WRITERAWPBI \READRAWPBI RAID \LISPFINISH \GETPACKETBUFFER  
\GATHERSTATS \DSPRATE DSPBOUT DISKPARTITION \CHECKBCPLPASSWORD)  
(PROPS (LLSUBRS FILETYPE))))

(DECLARE%: EVAL@COMPILE DONTCOPY

(ADDTOVAR **DONTCOMPILEFNS** SUBRCALL MISCN FIX-SUBR-NAME WRITECALLSUBRS)

)

::: MISCN Vars & Functions

:: FOLLOWING DEFINITIONS EXPORTED

(RPAQQ **\MISCN-TABLE-LIST**

((USER-SUBR 0 \USER-SUBR-UFN T)  
(CL:VALUES 1 CL::VALUES-UFN NIL)  
(CL: SXHASH 2 CL::SXHASH-UFN NIL)  
(CL::EQLHASHBITSFN 3 CL::EQLHASHBITSFN-UFN NIL)  
(STRINGHASHBITS 4 \STRINGHASHBITS-UFN NIL)  
(STRING-EQUAL-HASHBITS 5 \STRING-EQUAL-HASHBITS-UFN NIL)  
(CL:VALUES-LIST 6 CL::VALUES-LIST-UFN NIL)  
(LCFetchMethod 7 LCFetchMethod NIL)  
(LCFetchMethodOrHelp 8 NIL NIL)  
(LCFindVarIndex 9 NIL NIL)  
(LCGetIVValue 10 NIL NIL)  
(LCPutIVValue 11 NIL NIL)))

:: END EXPORTED DEFINITIONS

(DEFMACRO **MISCN** (NAME &REST ARGS)

```
[LET [(ARGNAMES (MAPCAR ARGS #'(LAMBDA (X)
                                (GENSYM)
                                \ (CL:FUNCALL [CL:COMPILE NIL '(LAMBDA ,ARGNAMES
                                                                ((OPCODES MISCN , (MISCN-NUMBER NAME)
                                                                , (LENGTH ARGS))
                                                                ,@ARGNAMES]
                                                                ,@ARGS))
```

```
(DEFOPTIMIZER MISCN (NAME &REST ARGS)
  \ ((OPCODES MISCN , (MISCN-NUMBER NAME)
      , (LENGTH ARGS))
     ,@ARGS))
```

(DEFINEQ

(MISCN-NUMBER

```
[LAMBDA (NAME)
  (CADR (OR (ASSOC NAME \MISCN-TABLE-LIST)
            (ERROR NAME " not a MISCN index")))
```

; Edited 7-Nov-88 15:21 by krivacic

(MISCN.UFN

```
[LAMBDA (ALPHA-BETA)
```

; Edited 8-Jun-89 16:57 by jds

;; The UFN for the MISCN opcode.

```
(DECLARE (GLOBALVARS \MISCN-TABLE))
```

;; Get the misc index & number of args from the code stream

```
(LET ((INDEX (LRSH ALPHA-BETA 8))
      (ARG-COUNT (LOGAND ALPHA-BETA 255)))
```

;; compute the position of the real IVARS on the stack. Create a pointer to these args and pass it to the Handler routine.

(COND

```
((NOT (AND (BOUNDP '\MISCN-TABLE)
           \MISCN-TABLE))
```

(\INIT-MISCN-TABLE)))

```
(LET* [(CALLER (\MYALINK))
       (MY-BF (\GET-MY-BF))
       (MY-IVAR (fetch (BF IVAR) of MY-BF))
       (RESULT-IVAR (- MY-IVAR (LLSH ARG-COUNT 1)))
       (MY-PARMS-PTR (\VAG2 1 RESULT-IVAR))
       (UFN-ENTRY (\ADDBASE \MISCN-TABLE (LLSH INDEX 1))
       (COND
```

((fetch (MISCN-UFN-ENTRY MISCN-MVS) OF UFN-ENTRY)

;; This UFN can return Multiple values, so we need to preserve them.

(CL:UNWIND-PROTECT

```
(APPLY* (\GETBASEPTR UFN-ENTRY 0)
        INDEX ARG-COUNT MY-PARMS-PTR)
```

(replace (BF IVAR) of MY-BF with RESULT-IVAR)

(REPLACE (FX NEXTBLOCK) OF CALLER WITH RESULT-IVAR)))

(T ;; He said no MVs are possible, so don't even TRY to preserve them. This is an expanded and cleaned up version of  
;; CL:UNWIND-PROTECT, so watch it!

```
(PROG1 (.UNWIND.PROTECT. [FUNCTION (LAMBDA NIL
                                   (replace (BF IVAR) of MY-BF with RESULT-IVAR)
                                   (APPLY* (\GETBASEPTR UFN-ENTRY 0)
                                           INDEX ARG-COUNT MY-PARMS-PTR))
      (replace (BF IVAR) of MY-BF with RESULT-IVAR)
      (REPLACE (FX NEXTBLOCK) OF CALLER WITH RESULT-IVAR))])
```

(UNDEFINED-MISCN-UFN

```
[LAMBDA (INDEX ARG-COUNT ARG-PTR)
  (PRINTOUT T "index " INDEX ", arg count " ARG-COUNT T)
  (ERROR (CL:FORMAT T "Undefined MISCN[~d] with ~d args." INDEX ARG-COUNT)
         (MISCN-COLLECT ARG-COUNT ARG-PTR))
```

; Edited 3-Nov-88 15:56 by krivacic

(MISCN-COLLECT

```
[LAMBDA (ARG-COUNT ARG-PTR)
  (FOR I FROM 0 TO (- ARG-COUNT 1) COLLECT (\GETBASEPTR ARG-PTR (LLSH I 1))
```

; Edited 3-Nov-88 11:52 by krivacic

(GET-MY-BF

```
[LAMBDA NIL
```

; Edited 3-Nov-88 11:08 by krivacic

;; Returns the stack index of the caller's BF.

```
(- (\MYALINK)
   2])
```

(INIT-MISCN-TABLE

```
[LAMBDA NIL
  (DECLARE (GLOBALVARS \MISCN-TABLE-LIST \MISCN-TABLE))
  (LET ((OP-NUMBER 36)
```

; Edited 7-Mar-89 09:43 by jds

```

(OP-LENGTH 3)
BASE)
(SETQ \MISCN-TABLE (ARRAY 256 'POINTER '\UNDEFINED-MISCN-UFN 0))
(SETQ BASE (FETCH (ARRAYP BASE) OF \MISCN-TABLE))
(for MISCN-ENTRY in \MISCN-TABLE-LIST do (SETA \MISCN-TABLE (CADR MISCN-ENTRY)
(CADDR MISCN-ENTRY))
(REPLACE (MISCN-UFN-ENTRY MISCN-MVS)
OF (\ADDBASE2 BASE (FETCH (MISCN-UFN-SPEC INDEX)
OF MISCN-ENTRY))
WITH (FETCH (MISCN-UFN-SPEC MVS) OF MISCN-ENTRY)))
(SETQ \MISCN-TABLE BASE])
)
(PUTPROPS MISCN ARGNAMES (NAME &REST ARGS))
(DECLARE%: EVAL@COMPILE DONTCOPY
(DECLARE%: EVAL@COMPILE
(RECORD MISCN-UFN-SPEC ( ;; This is the description for a MISCN opcode's UFN, as placed in \MISCN-TABLE-LIST.
NAME ; Name of the MISCN, for the MISCN macro's use.
INDEX ; Sub-opcode index.
UFN-NAME ; Name of the UFN
MVS ; T if the UFN can return multiple values. If this is NIL, MVs WILL
; NOT BE PRESERVED.
))
(BLOCKRECORD MISCN-UFN-ENTRY ((MISCN-MVS FLAG)
(NIL BITS 3)
(MISCN-UFN POINTER)))
)
)

```

;; USER-SUBR Vars & Functions
;; FOLLOWING DEFINITIONS EXPORTED

```

(RPAQQ \USER-SUBR-LIST ((DUMMY 10 DUMMY-UFN)
(SAMPLE-USER-SUBR 0 SAMPLE-USER-SUBR-UFN)))

```

;; END EXPORTED DEFINITIONS

```

(DEFMACRO USER-SUBR (USER-SUBR-NAME &REST ARGS)
\MISCN USER-SUBR , (USER-SUBR-NUMBER USER-SUBR-NAME)
,@ARGS)

```

```

(CL:DEFUN ADD-USER-SUBR (USER-SUBR-NAME USER-SUBR-INDEX USER-SUBR-UFN)
(DECLARE (GLOBALVARS \USER-SUBR-TABLE \USER-SUBR-LIST))
;; Make Sure \USER-SUBR-TABLE is made
(IF (NOT (AND (BOUNDP '\USER-SUBR-TABLE)
\USER-SUBR-TABLE))
THEN (\INIT-USER-SUBR-TABLE))
;; See if the Name is already defined
[AND (FASSOC USER-SUBR-NAME \USER-SUBR-LIST)
(CL:CERROR "Delete old User-subr" "User-subr ~S already defined" USER-SUBR-NAME)
(SETA \USER-SUBR-TABLE (CADR (FASSOC USER-SUBR-NAME \USER-SUBR-LIST))
'\UNDEFINED-USER-SUBR-UFN)
(SETQ \USER-SUBR-LIST (CL:REMOVE USER-SUBR-NAME \USER-SUBR-LIST :TEST 'EQ-TO-CAR])
;; See if the UFN is already defined
[AND (OR (NEQ (ELT \USER-SUBR-TABLE USER-SUBR-INDEX)
'\UNDEFINED-USER-SUBR-UFN)
(CL:FIND USER-SUBR-INDEX \USER-SUBR-LIST :KEY #'CL:SECOND))
(CL:CERROR "Delete old User-subr" " User-subr index ~d already defined" USER-SUBR-INDEX)
(SETQ \USER-SUBR-LIST (CL:REMOVE USER-SUBR-INDEX \USER-SUBR-LIST :TEST 'EQ-TO-CADR]
(CL:PUSH (LIST USER-SUBR-NAME USER-SUBR-INDEX (OR USER-SUBR-UFN '\UNDEFINED-USER-SUBR-UFN))
\USER-SUBR-LIST)
(\INIT-USER-SUBR-TABLE))

```

(DEFINEQ

```

\USER-SUBR-UFN
[LAMBDA (INDEX ARG-COUNT ARG-PTR)
(DECLARE (GLOBALVARS \USER-SUBR-TABLE))
(IF (NOT (AND (BOUNDP '\USER-SUBR-TABLE)
\USER-SUBR-TABLE))
THEN (\INIT-USER-SUBR-TABLE))
(LET ((USER-SUBR-INDEX (\GETBASE ARG-PTR 1)))
;; User SUBR ufn. Index on the User subr indexes

```

; Edited 4-Nov-88 18:43 by krivacic

```
(APPLY* (ELT \USER-SUBR-TABLE USER-SUBR-INDEX)
        USER-SUBR-INDEX
        (- ARG-COUNT 1)
        (\ADDBASE ARG-PTR 2])
```

**(\INIT-USER-SUBR-TABLE**

```
[LAMBDA NIL
  (DECLARE (GLOBALVARS \USER-SUBR-TABLE \USER-SUBR-LIST)) ; Edited 4-Nov-88 18:58 by krivacic
  (SETQ \USER-SUBR-TABLE (ARRAY 256 'POINTER '\UNDEFINED-USER-SUBR-UFN 0))
  (for SUBR-ENTRY in \USER-SUBR-LIST do (SETA \USER-SUBR-TABLE (CADR SUBR-ENTRY)
                                              (CADDR SUBR-ENTRY]))
```

**(\UNDEFINED-USER-SUBR-UFN**

```
[LAMBDA (USER-SUBR-INDEX ARG-COUNT ARG-PTR) ; Edited 7-Nov-88 14:33 by krivacic
  ;; User SUBR ufn. Index on the User subr indexes
  (ERROR (CL:FORMAT NIL "Undefined USER-SUBR[~d] with ~d args." USER-SUBR-INDEX ARG-COUNT)
         (MISCN-COLLECT ARG-COUNT ARG-PTR])
```

**(USER-SUBR-NUMBER**

```
[LAMBDA (NAME) ; Edited 4-Nov-88 18:42 by krivacic
  (CADR (OR (ASSOC NAME \USER-SUBR-LIST)
            (ERROR NAME " not a USER-SUBR index"])
```

**(EQ-TO-CAR**

```
[LAMBDA (ITEM LIST)
  (EQ ITEM (CAR LIST])
```

**(EQ-TO-CADR**

```
[LAMBDA (ITEM LIST)
  (EQ ITEM (CADR LIST])
```

)

```
(PUTPROPS USER-SUBR ARGNAMES (USER-SUBR-NAME &REST ARGS))
```

;;; SUBRCALL Vars & Functions

;; FOLLOWING DEFINITIONS EXPORTED

**(RPAQQ \INITSUBRS**

- ((BACKGROUNDSSUBR 6)
- (CHECKBCPLPASSWORD 7)
- (DISKPARTITION 8)
- (DSPBOUT 9)
- (DSPRATE 10)
- (GATHERSTATS 11)
- (GETPACKETBUFFER 12)
- (LISPFINISH 13)
- (MOREVMMEMFILE 14)
- (RAID 15)
- (READRAWPBI 16)
- (WRITERAWPBI 17)
- (SETSCREENCOLOR 18)
- (SHOWDISPLAY 19)
- (PUPLEVELISTATE 20)
- (WRITESTATS 21)
- (CONTEXTSWITCH 22)
- (COPYSYS0SUBR 23)
- (WRITEMAP 24)
- (UFS-GETFILENAME 34)
- (UFS-DELETEFILE 35)
- (UFS-RENAMEFILE 36)
- (COM-READPAGES 37)
- (COM-WRITEPAGES 38)
- (COM-TRUNCATEFILE 39)
- (UFS-DIRECTORYNAMEP 41)
- (COM-GETFREEBLOCK 45)
- (SETUNIXTIME 48)
- (GETUNIXTIME 49)
- (COPYTIMESTATS 50)
- (UNIX-USERNAME 51)
- (UNIX-FULLNAME 52)
- (UNIX-GETENV 53)
- (UNIX-GETPARG 54)
- (CHECK-SUM 55)
- (ETHER-SUSPEND 56)
- (ETHER-RESUME 57)
- (ETHER-AVAILABLE 58)
- (ETHER-RESET 59)
- (ETHER-GET 60)

(ETHER-SEND 61)  
(ETHER-SETFILTER 62)  
(ETHER-CHECK 63)  
(DSPCURSOR 64)  
(SETMOUSEXY 65)  
(DSP-VIDEOCOLOR 66)  
(DSP-SCREENWIDTH 67)  
(DSP-SCREENHEIGHT 68)  
(BITBLTSUB 69)  
(BLTCHAR 70)  
(TEDIT.BLTCHAR 71)  
(BITBLT.BITMAP 72)  
(BLTSHADE.BITMAP 73)  
(RS232C-CMD 74)  
(RS232C-READ-INIT 75)  
(RS232C-WRITE 76)  
(KEYBOARDBEEP 80)  
(KEYBOARDMAP 81)  
(KEYBOARDSTATE 82)  
(VMEMSAVE 89)  
(LISP-FINISH 90)  
(NEWPAGE 91)  
(DORECLAIM 92)  
(DUMMY-135Q 93)  
(NATIVE-MEMORY-REFERENCE 94)  
(OLD-COMPILE-LOAD-NATIVE 95)  
(DISABLEGC 96)  
(COM-SETFILEINFO 103)  
(COM-OPENFILE 104)  
(COM-CLOSEFILE 105)  
(DSK-GETFILENAME 106)  
(DSK-DELETEFILE 107)  
(DSK-RENAMEFILE 108)  
(COM-NEXT-FILE 110)  
(COM-FINISH-FINFO 111)  
(COM-GEN-FILES 112)  
(DSK-DIRECTORYNAMEP 113)  
(COM-GETFILEINFO 114)  
(COM-CHANGEDIR 116)  
(UNIX-HANDLECOMM 117)  
(RPC-CALL 119)  
(MESSAGE-READP 120)  
(MESSAGE-READ 121)  
(MONITOR-CONTROL 128)  
(GET-NATIVE-ADDR-FROM-LISP-PTR 131)  
(GET-LISP-PTR-FROM-NATIVE-ADDR 132)  
(LOAD-NATIVE-FILE 133)  
(SUSPEND-LISP 134)  
(NEW-BLTCHAR 135)  
(COLOR-INIT 136)  
(COLOR-SCREENMODE 137)  
(COLOR-MAP 138)  
(COLOR-BASE 139)  
(C-SlowBlChar 140)  
(UNCOLORIZE-BITMAP 141)  
(COLORIZE-BITMAP 142)  
(COLOR-8BPPDRAWLINE 143)  
(TCP-OP 144)  
(WITH-SYMBOL 145)  
(CAUSE-INTERRUPT 146)  
(OPEN-SOCKET 160)  
(CLOSE-SOCKET 161)  
(READ-SOCKET 162)  
(WRITE-SOCKET 163)  
(CALL-C-FUNCTION 167)  
(DLD-LINK 168)  
(DLD-UNLINK-BY-FILE 169)  
(DLD-UNLINK-BY-SYMBOL 170)  
(DLD-GET-SYMBOL 171)  
(DLD-GET-FUNC 172)  
(DLD-FUNCTION-EXECUTABLE-P 173)  
(DLD-LIST-UNDEFINED-SYMBOLS 174)  
(C-MALLOC 175)  
(C-FREE 176)  
(C-PUTBASEBYTE 177)  
(C-GETBASEBYTE 178)  
(CHAR-OPENFILE 200)  
(CHAR-BIN 201)  
(CHAR-BOU 202)  
(CHAR-IOCTL 203)  
(CHAR-CLOSEFILE 204)  
(CHAR-EOFF 205)  
(CHAR-READP 206)  
(CHAR-BINS 207)  
(CHAR-BOU 208)  
(CHAR-FILLBUFFER 209)  
(YIELD 210))

:: END EXPORTED DEFINITIONS

```
(DEFMACRO SUBRCALL (NAME &REST ARGS)
  [LET [(ARGNAMES (MAPCAR ARGS #'(LAMBDA (X)
    (GENSYM
      \ (CL:FUNCALL [CL:COMPILE NIL ' (LAMBDA ,ARGNAMES
        ((OPCODES SUBRCALL , (SUBRNUMBER NAME)
          , (LENGTH ARGS))
        ,@ARGNAMES]
        ,@ARGS])
```

```
(DEFOPTIMIZER SUBRCALL (NAME &REST ARGS)
  \ ((OPCODES SUBRCALL , (SUBRNUMBER NAME)
    , (LENGTH ARGS))
    ,@ARGS))
```

(DEFINEQ

**(SUBRNUMBER**

[LAMBDA (NAME) ; Edited 5-Feb-92 16:49 by jds

:: Given a SUBR's NAME or number, return the corresponding subr number.

```
(LET (NUMBER)
  (COND
    ((FIXP NAME)
     (CL:WARN "SUBR name (~d) is a number; should be abstracted." NAME)
     NAME)
    ((CADR (ASSOC NAME \INITSUBRS)))
    ([SETQ NUMBER (CADR (CL:ASSOC NAME \INITSUBRS :TEST (FUNCTION STRING.EQUAL)
      (CL:WARN "SUBR name ~s is in wrong package. Using ~d as subr number." NAME NUMBER))
      (T (ERROR NAME " not a SUBR"))
```

)

:: use this to make a subrs.h file for Maiko

(DEFINEQ

**(WRITECALLSUBRS**

[LAMBDA NIL ; Edited 13-Sep-2021 15:19 by briggs

```
(CL:WITH-OPEN-FILE (*STANDARD-OUTPUT* "subrs.h" :DIRECTION :OUTPUT :IF-EXISTS :NEW-VERSION)
  (CL:FORMAT T "#ifndef SUBRS_H~&#define SUBRS_H 1~&"
  (CL:FORMAT T "/* This file written from LLSUBRS on ~22A */~&" (DATE))
  (CL:FORMAT T "/* Do not edit this file! Instead, edit the list \initsubrs */~&"
  (CL:FORMAT T "/* on the lisp file LLSUBRS and then call WRITECALLSUBRS to */~&"
  (CL:FORMAT T "/* generate a new version. */~&"
  (for X in \INITSUBRS do (CL:FORMAT T "#define sb_~42A 0~0~&" (FIX-SUBR-NAME (CAR X))
    (CADR X)))
  (CL:FORMAT T "~&~&/* MISCN opcodes */~&"
  (for X in \MISCN-TABLE-LIST do (CL:FORMAT T "#define miscn_~39A 0~0~&" (FIX-SUBR-NAME (CAR X))
    (CADR X)))
  (CL:FORMAT T "~&~&/* Assigned USER SUBR numbers */~&"
  (for X in \USER-SUBR-LIST do (CL:FORMAT T "#define user_subr_~35A 0~0~&" (FIX-SUBR-NAME (CAR X))
    (CADR X)))
  (CL:FORMAT T "#endif~&"])
```

**(FIX-SUBR-NAME**

[LAMBDA (NAME) ; Edited 13-Feb-89 16:17 by jds

:: Fix up a SUBR name for use as a symbol in the C code, by:

:: Converting all -'s to \_'s

:: Converting all .'s to \_'s

:: Removing all \'s.

:: This allows us to use fairly normal Lisp symbols for SUBR names (like \TEDIT.BLTCHAR), while having them translate pleasantly.

```
(CONCATCODES (DREMOVE (CHARCODE \)
  (SUBST (CHARCODE _)
    (CHARCODE %.)
    (SUBST (CHARCODE _)
      (CHARCODE -)
      (CHCON NAME]))
```

)

(PUTPROPS **SUBRCALL** ARGNAMES (NAME &REST ARGS))

(DECLARE%: DONTCOPY

(DECLARE%: EVAL@COMPILE

[PUTDEF 'UNIXSTRING 'RESOURCES '(NEW (ALLOCSTRING 512)

```
{MEDLEY}<sources>LLSUBRS.;1
```

```
)
)
```

```
(/SETTOPVAL '\UNIXSTRING.GLOBALRESOURCE NIL)
```

```
(DEFINEQ
```

```
(\MOREVMEMFILE
```

```
[LAMBDA (FILEPAGE)
```

```
(SUBRCALL MOREVMEMFILE FILEPAGE])
```

```
; Edited 27-Apr-88 13:36 by MASINTER
```

```
(\WRITEMAP
```

```
[LAMBDA (VP RP FLAGS)
```

```
(SUBRCALL WRITEMAP VP RP FLAGS])
```

```
; Edited 27-Apr-88 13:37 by MASINTER
```

```
(\COPYSYS0SUBR
```

```
[LAMBDA (FID)
```

```
(SUBRCALL COPYSYS0SUBR FID])
```

```
; Edited 20-Apr-88 12:36 by MASINTER
```

```
(\PUPLEVEL1STATE
```

```
[LAMBDA (FLG)
```

```
(SUBRCALL PUPLEVEL1STATE FLG])
```

```
; Edited 20-Apr-88 12:37 by MASINTER
```

```
(\SHOWDISPLAY
```

```
[LAMBDA (BASE RASTERWIDTH)
```

```
;; comments are done with semicolons one comment is at the right margin, it automatically do you type
(SUBRCALL SHOWDISPLAY BASE RASTERWIDTH])
```

```
; Edited 27-Apr-88 13:40 by MASINTER
```

```
(\SETSCREENCOLOR
```

```
[LAMBDA (FLG)
```

```
(SUBRCALL SETSCREENCOLOR FLG])
```

```
; Edited 20-Apr-88 12:37 by MASINTER
```

```
(\WRITERAWPBI
```

```
[LAMBDA (PBI)
```

```
(SUBRCALL WRITERAWPBI PBI])
```

```
; Edited 20-Apr-88 12:38 by MASINTER
```

```
(\READRAWPBI
```

```
[LAMBDA NIL
```

```
(SUBRCALL READRAWPBI])
```

```
; Edited 20-Apr-88 12:38 by MASINTER
```

```
(\RAID
```

```
[LAMBDA (MESS1 MESS2 FLG)
```

```
(SUBRCALL RAID MESS1 MESS2 FLG])
```

```
; Edited 20-Apr-88 12:38 by MASINTER
```

```
(\LISPFINISH
```

```
[LAMBDA (DUMMY)
```

```
(SUBRCALL LISPFINISH DUMMY])
```

```
; Edited 20-Apr-88 12:38 by MASINTER
```

```
(\GETPACKETBUFFER
```

```
[LAMBDA NIL
```

```
(SUBRCALL GETPACKETBUFFER])
```

```
; Edited 20-Apr-88 12:38 by MASINTER
```

```
(\GATHERSTATS
```

```
[LAMBDA (FID)
```

```
(SUBRCALL GATHERSTATS FID])
```

```
; Edited 20-Apr-88 12:38 by MASINTER
```

```
(\DSPRATE
```

```
[LAMBDA (AC0 AC1 AC2)
```

```
(SUBRCALL DSPRATE AC0 AC1 AC2])
```

```
; Edited 20-Apr-88 12:39 by MASINTER
```

```
; Edited 20-Apr-88 12:39 by MASINTER
```

```
(\DSPBOUT
```

```
[LAMBDA (CHARCODE)
```

```
(SUBRCALL DSPBOUT CHARCODE])
```

```
; Edited 20-Apr-88 12:39 by MASINTER
```

```
(\DISKPARTITION
```

```
[LAMBDA NIL
```

```
(SELECTQ (MACHINETYPE)
```

```
((DORADO DOLPHIN)
```

```
(SUBRCALL DISKPARTITION))
```

```
((DANDELION DOVE)
```

```
(\DFSCurrentVolume))
```

```
; Edited 20-Apr-88 12:39 by MASINTER
```

NIL])

(CHECKBCPLPASSWORD

[LAMBDA (USER PASSWORD)
(SUBRCALL CHECKBCPLPASSWORD USER PASSWORD)]

; Edited 14-Jun-88 13:33 by drc:

(SUSPEND-LISP

[LAMBDA NIL
(if (EQ (MACHINETYPE)
'MAIKO)
then (SUBRCALL SUSPEND-LISP)
T
else NIL)]

; Edited 20-Jun-88 15:24 by greep

(UNIX-USERNAME

[LAMBDA NIL
(if (EQ \MACHINETYPE \MAIKO)
then (WITH-RESOURCE UNIXSTRING (if (SUBRCALL UNIX-USERNAME UNIXSTRING)
then (CONCAT (SUBSTRING UNIXSTRING 1 (CL:POSITION #\Null UNIXSTRING))

; Edited 1-Aug-88 23:22 by masinter

(UNIX-FULLNAME

[LAMBDA NIL
(if (EQ \MACHINETYPE \MAIKO)
then (WITH-RESOURCES UNIXSTRING (if (SUBRCALL UNIX-FULLNAME UNIXSTRING)
then (CONCAT (SUBSTRING UNIXSTRING 1 (CL:POSITION #\Null UNIXSTRING))

; Edited 18-Jul-88 03:47 by masinter

(UNIX-GETENV

[LAMBDA (NAME)
(WITH-RESOURCES UNIXSTRING
(LET ((X UNIXSTRING))
(if (SUBRCALL UNIX-GETENV (MKSTRING NAME)
X)
then (CONCAT (SUBSTRING X 1 (for I from 1 do (if (FMEMB (NTHCHARCODE X I)
'(0 NIL))
then (RETURN (SUB1 I))

; Edited 21-Feb-2021 21:09 by larry

(UNIX-GETPARG

[LAMBDA (NAME)
;; Read information from the C emulator. Usually gets info about configuration of the machine we're running on.
;; Used to use CL:POSITION, but now called in the INIT if you're on a Sun, so I changed it to STRPOS.
;; SUBRCALL UNIX-GETPARG now returns the length of the string.
(if (EQ \MACHINETYPE \MAIKO)
then (LET (LEN)
(WITH-RESOURCE UNIXSTRING (SETQ LEN (SUBRCALL UNIX-GETPARG (MKSTRING NAME)
UNIXSTRING))
(COND
[(SMALLP LEN)
(if (> LEN 0)
then (CONCAT (SUBSTRING UNIXSTRING 1 LEN)
(LEN (CONCAT (SUBSTRING UNIXSTRING 1 (SUB1 (STRPOS #\Null UNIXSTRING))

; Edited 27-Feb-91 17:11 by nm

(PUTPROPS SHOWDISPLAY ARGUMENTS (BASE RASTERWIDTH))

(PUTPROPS SETSCREENCOLOR ARGUMENTS (FLG))

(PUTPROPS WRITERAWPBI ARGUMENTS (PBI))

(PUTPROPS READRAWPBI ARGUMENTS NIL)

(PUTPROPS RAID ARGUMENTS (MESS1 MESS2 FLG))

(PUTPROPS LISPFINISH ARGUMENTS (DUMMY))

(PUTPROPS GETPACKETBUFFER ARGUMENTS NIL)

(PUTPROPS GATHERSTATS ARGUMENTS (FID))

(PUTPROPS DSPRATE ARGUMENTS (AC0 AC1 AC2))

(PUTPROPS DSPBOUT ARGUMENTS (CHARCODE))

(PUTPROPS DISKPARTITION ARGUMENTS NIL)

(PUTPROPS CHECKBCPLPASSWORD ARGUMENTS (PASS CL:VECTOR))

(PUTPROPS LLSUBRS FILETYPE CL:COMPILE-FILE)



(PUTPROPS **LLSUBRS COPYRIGHT** ("Venue & Xerox Corporation" 1983 1984 1985 1986 1988 1989 1990 1991 1992 2021))

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