

File created: 4-Apr-88 12:40:00 {ERINYES}<LISPUSERS>MEDLEY>PREEMPTIVE.;3

changes to: (FNS PREEMPTIVE PREEMPTIVE.BLOCK)
(VARS PREEMPTIVECOMS)
(VARIABLES NO-PERIODIC-INTERRUPT-FUNCTIONS)

previous date: 4-Apr-88 12:27:36 {ERINYES}<LISPUSERS>MEDLEY>PREEMPTIVE.;2

Read Table: XCL

Package: INTERLISP

Format: XCCS

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(RPAQQ **PREEMPTIVECOMS**

```
( (FNS PREEMPTIVE.BLOCK PREEMPTIVE)
  (VARIABLES NO-PERIODIC-INTERRUPT-FUNCTIONS)
  (DECLARE\ : DONTEVAL@LOAD DOCOPY (P (PREEMPTIVE ' :ON)))
  (DECLARE\ : EVAL@COMPILE DONTCOPY (P (OR (HASDEF 'PROCESS 'RECORDS)
                                           (EVAL (SYSRELOOK1 'PROCESS))))))
  (ADVISE MESSAGEDISPLAYER)
  (DECLARE\ : DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS (ADDVARS (NLAMA)
                                                                           (NLAML)
                                                                           (LAMA PREEMPTIVE))))))
```

(DEFINEQ

(PREEMPTIVE.BLOCK

```
(LAMBDA NIL
  (COND
    ((AND \\INTERRUPTABLE (UNINTERRUPTABLY
      (AND (NOT (|fetch| (PROCESS PROCSYSTEMP) |of| (THIS.PROCESS)))
           (OR (EQ LASTMOUSEBUTTONS 0)
               (PROGN (GETMOUSESTATE)
                     (EQ LASTMOUSEBUTTONS 0)))
           (PROG (NAME (FRAME (|fetch| (FX CLINK)
                                     (\\MYALINK))))
                 SAMPLELOOP
                 (COND
                   ((AND (LITATOM (SETQ NAME (\\STKNAME FRAME)))
                        (FMEMB NAME NO-PERIODIC-INTERRUPT-FUNCTIONS))
                    (RETURN NIL)))
                 (COND
                   ((NOT (|fetch| (FX INVALIDP)
                                 (SETQ FRAME (|fetch| (FX CLINK)
                                                       FRAME))))
                    (GO SAMPLELOOP))
                   (T (RETURN T))))))))
    (BLOCK))))))
```

; Edited 4-Apr-88 12:26 by drc:

(PREEMPTIVE

```
(LAMBDA (STATE)
  (PROG1 (COND
    ((EQ \\PERIODIC.INTERRUPT 'PREEMPTIVE.BLOCK)
     ' :ON)
    (T ' :OFF))
    (AND STATE (SELECTQ (CL:INTERN (STRING STATE)
                                   'KEYWORD)
      ((:ON)
       (SETQ \\PERIODIC.INTERRUPT.FREQUENCY 25)
       (SETQ \\PERIODIC.INTERRUPT 'PREEMPTIVE.BLOCK))
      ((:OFF)
       (SETQ \\PERIODIC.INTERRUPT NIL))
      (ERROR STATE "not valid argument"))))))
```

; Edited 4-Apr-88 12:37 by drc:

(DEFGLOBALVAR **NO-PERIODIC-INTERRUPT-FUNCTIONS**

```
' (GETKEY TTWAITFORINPUT GETMOUSESTATE MENU.HANDLER \\BLTSHADE.DISPLAY \\BITBLT.DISPLAY \\BITBLT.BITMAP
  \\BLTSHADE.BITMAP \\TOTOPWDS \\BITBLTSUB MENU))
```

(DECLARE\ : DONTEVAL@LOAD DOCOPY

(PREEMPTIVE ' :ON)

(DECLARE\ : EVAL@COMPILE DONTCOPY

```
(OR (HASDEF 'PROCESS 'RECORDS)
  (EVAL (SYSRELOOK1 'PROCESS)))
```

(XCL:REINSTALL-ADVICE 'MESSAGEDISPLAYER :BEFORE '(:LAST (ALLOW.BUTTON.EVENTS))))

```

{MEDLEY}<lispusers>PREEMPTIVE.;1

(READVISE MESSAGEDISPLAYER)

(DECLARE\ : DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS

(ADDTOVAR NLAMA )

(ADDTOVAR NLAML )

(ADDTOVAR LAMA PREEMPTIVE)
)

(RPAQQ PREEMPTIVECOMS
  ((FNS PREEMPTIVE.BLOCK PREEMPTIVE)
   (VARIABLES NO-PERIODIC-INTERRUPT-FUNCTIONS)
   (DECLARE\ : DONTEVAL@LOAD DOCOPY (P (PREEMPTIVE ':ON)))
   (DECLARE\ : EVAL@COMPILE DONTCOPY (P (OR (HASDEF 'PROCESS 'RECORDS)
                                             (EVAL (SYSRELOOK1 'PROCESS)))))
   (ADVISE MESSAGEDISPLAYER)
   (DECLARE\ : DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS (ADDVARS (NLAMA)
                                                                              (NLAML)
                                                                              (LAMA))))))

(DECLARE\ : DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS

(ADDTOVAR NLAMA )

(ADDTOVAR NLAML )

(ADDTOVAR LAMA )
)

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```

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NO-PERIODIC-INTERRUPT-FUNCTIONS1
