

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 (SYSRECLOOK1 '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 T TWAITFORINPUT 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 (SYSRECLOOK1 'PROCESS)))
```

)

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

```

{MEDLEY}<lispusers>PREEMPTIVE.;1

(READWISE 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 DONTCOPY (P (PREEMPTIVE ':ON)))
   (DECLARE\: EVAL@COMPILE DONTCOPY (P (OR (HASDEF 'PROCESS 'RECORDS)
                                           (EVAL (SYSRECLOOK1 '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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PREEMPTIVE1 PREEMPTIVE.BLOCK1

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NO-PERIODIC-INTERRUPT-FUNCTIONS1
