

File created: 12-Jul-88 14:35:59 {MCS:MCS:STANFORD}<LANE>HASHDATUM.;4

changes to: (VARS HASHDATUMCOMS)
(FNS GETHASHTEDIT)

previous date: 15-Sep-87 11:25:28 {MCS:MCS:STANFORD}<LANE>HASHDATUM.;3

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

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(RPAQQ **HASHDATUMCOMS**

```
((FNS GETHASHDATUM PUTHASHDATUM)
 (MACROS GETHASHBITMAP PUTHASHBITMAP GETHASHBINARYBITMAP PUTHASHBINARYBITMAP GETHASHGRAPH PUTHASHGRAPH
          GETHASHUGLY PUTHASHUGLY PUTHASHTEDIT)
 (FNS GETHASHTEDIT \WRITEBM)
 (DECLARE%: DONTCOPY DOEVAL@COMPILE (FILES (LOADCOMP)
                                             HASH))
 (FILES HASH)))
```

(DEFINEQ

(**GETHASHDATUM**

```
[LAMBDA (KEY HASHFILE READFN) (* cdl "28-Jun-85 10:07")
 (PROG ((HASHTEXTPTR (GETHASHFILE KEY HASHFILE)))
 (if (type? HashTextPtr HASHTEXTPTR)
 then (with HashFile HASHFILE (with HashTextPtr HASHTEXTPTR (SETFILEPTR Stream Start))
 (RETURN (APPLY* READFN Stream))
```

(**PUTHASHDATUM**

```
[LAMBDA (KEY DATA HASHFILE PRINTFN) (* cdl "28-Jun-85 10:17")
 (with HashFile (SETQ HASHFILE (GTHASHFILE HASHFILE T))
 (SETFILEPTR Stream -1)
 (PROG [(HASHTEXTPTR (create HashTextPtr
                               Start _ (GETEOFPTR Stream)
                               (with HashTextPtr HASHTEXTPTR (APPLY* PRINTFN DATA Stream)
                               (SETQ End (GETEOFPTR Stream))))
 (RETURN (PUTHASHFILE KEY HASHTEXTPTR HASHFILE))
```

(DECLARE%: EVAL@COMPILE

(PUTPROPS **GETHASHBITMAP MACRO** ((KEY HASHFILE)
 (**GETHASHDATUM** KEY HASHFILE (FUNCTION READBITMAP))))

(PUTPROPS **PUTHASHBITMAP MACRO** ((KEY BITMAP HASHFILE)
 (**PUTHASHDATUM** KEY BITMAP HASHFILE (FUNCTION PRINTBITMAP))))

(PUTPROPS **GETHASHBINARYBITMAP MACRO** ((KEY HASHFILE)
 (**GETHASHDATUM** KEY HASHFILE (FUNCTION READBM))))

(PUTPROPS **PUTHASHBINARYBITMAP MACRO** ((KEY BITMAP HASHFILE)
 (**PUTHASHDATUM** KEY BITMAP HASHFILE (FUNCTION \WRITEBM))))

(PUTPROPS **GETHASHGRAPH MACRO** ((KEY HASHFILE)
 (**GETHASHDATUM** KEY HASHFILE (FUNCTION READGRAPH))))

(PUTPROPS **PUTHASHGRAPH MACRO** ((KEY GRAPH HASHFILE)
 (**PUTHASHDATUM** KEY GRAPH HASHFILE (FUNCTION DUMPGRAPH))))

(PUTPROPS **GETHASHUGLY MACRO** ((KEY HASHFILE)
 (**GETHASHDATUM** KEY HASHFILE (FUNCTION HREAD))))

(PUTPROPS **PUTHASHUGLY MACRO** ((KEY UGLYVAR HASHFILE)
 (**PUTHASHDATUM** KEY UGLYVAR HASHFILE (FUNCTION HPRINT))))

(PUTPROPS **PUTHASHTEDIT MACRO** ((KEY TEXTOBJ HASHFILE)
 (**PUTHASHDATUM** KEY TEXTOBJ HASHFILE (FUNCTION TEDIT.PUT.PCTB))))

(DEFINEQ

(**GETHASHTEDIT**

```
[LAMBDA (KEY HASHFILE WINDOW PROPS) ; Edited 12-Jul-88 14:33 by cdl
 (with HashTextPtr (GETHASHFILE KEY HASHFILE)
 (OPENTEXTSTREAM (OPENSTREAM (with HashFile HASHFILE File)
                              'INPUT)
                  WINDOW Start End PROPS])
```

{MEDLEY}<lispusers>HASHDATUM.;1

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```
(\WRITEBM  
  [LAMBDA (BITMAP STREAM) (* cdl "24-Oct-85 10:51")  
    (WRITEBM STREAM BITMAP])  
)  
  
(DECLARE%: DONTCOPY DOEVAL@COMPILE  
  
(FILESLOAD (LOADCOMP)  
  HASH)  
)  
  
(FILESLOAD HASH)  
  
(PUTPROPS HASHDATUM COPYRIGHT ("Stanford University" 1985 1986 1987 1988))
```

FUNCTION INDEX

GETHASHDATUM1 GETHASHTEDIT1 PUTHASHDATUM1 \WRITEBM2

MACRO INDEX

GETHASHBINARYBITMAP1 GETHASHUGLY1 PUTHASHGRAPH1
GETHASHBITMAP1 PUTHASHBINARYBITMAP1 PUTHASHTEDIT1
GETHASHGRAPH1 PUTHASHBITMAP1 PUTHASHUGLY1
