HASHDATUM

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Uses: HASH

HASHDATUM facilitates storing random Envos Lisp datatypes on *hash files* using the hashed text feature of the HASH Lisp Library module. The module defines functions which access an item on a hash file as a stream of bytes using user supplied input and output functions. Since the items are stored using text hashing, when rehashing or copying of the file occurs, the data portion of the file is copied correctly.

(GETHASHDATUM *KEY HASHFILE READFN*)   [Function]

(PUTHASHDATUM *KEY DATUM HASHFILE PRINTFN*)   [Function]

Use *READFN* and *PRINTFN* to store and retrieve *DATUM* on *HASHFILE*. The *READFN* takes a stream as its argument, the *PRINTFN* takes the *DATUM* and a stream. The *put* function returns the hash file text pointer record which contains two byte pointers that indicate where the datum begins and ends on the file. The *get* function returns the result of the *READFN*.

The following macros and functions are also defined using the above functions:

(GETHASHGRAPH *KEY HASHFILE*)   [Macro]

(PUTHASHGRAPH *KEY GRAPH HASHFILE*)   [Macro]

Use GRAPHER functions READGRAPH and DUMPGRAPH to store *GRAPH* on *HASHFILE* under *KEY*.

(GETHASHBITMAP *KEY HASHFILE*)   [Macro]

(PUTHASHBITMAP *KEY BITMAP HASHFILE*)   [Macro]

Use READBITMAP and PRINTBITMAP to store *BITMAP* on *HASHFILE* in a text format.

(GETHASHBINARYBITMAP *KEY HASHFILE*)   [Macro]

(PUTHASHBINARYBITMAP *KEY BITMAP HASHFILE*)   [Macro]

Use READBM and WRITEBM from BITMAPFNS to store *BITMAP* on *HASHFILE* in a binary format.

(GETHASHTEDIT *KEY HASHFILE [WINDOW PROPS]*)   [Function]

(PUTHASHTEDIT *KEY TEXTOBJ HASHFILE*)   [Macro]

Use OPENTEXTSTREAM and TEDIT.PUT.PCTB from TEDIT to store *TEXTOBJ* on *HASHFILE*, preserving both the text and formatting information. *WINDOW* and *PROPS* are optional and are passed to OPENTEXTSTREAM. If the *WINDOW* argument is not supplied, the result of the *get* function can be passed to OPENTEXTSTREAM along with a window to display the text.

(GETHASHUGLY *KEY HASHFILE*)   [Macro]

(PUTHASHUGLY *KEY UGLYVAR HASHFILE*)   [Macro]

Use HREAD and HPRINT to store random data, like menus, on *HASHFILE*.