

Date: 23 Jan 89 16:12
From: Will Snow: AISNorth: Xerox
Subject: Places that use hiloc/loloc and what for
To: sybalsky: AISNorth: Xerox, shih: AISNorth: Xerox
cc: Will Snow: AISNorth: Xerox

I spent some time finding out who uses hiloc/loloc and what they use them for. the following is a summary:

10MBDECLS:

DOETHERIOCB
DLEETHERIOCB

All iocb's are in the lowest addresses, so 10MBdecls takes advantage and only puts in the piece of the pointer necessary (loloc)

10MBDRIVER:

\RELEASE.IOCB change the "next iocb" field of the given iocb to a null value.
\INIT.ETHER.BUFFER.POOL change the "next iocb" fields to null.
\QUEUE.INPUT.IOCB next iocb ptr of last iocb = this iocb, or make this the first one.
\QUEUE.OUTPUT.IOCB rearranging the queue of iocb's

ABASIC:

EQUAL uses loloc as an optimization on fixp vs smallp comparisons.

ACODE:

CHANGECCODE uses hiloc, loloc during refcount operations
CODEBLOCKP uses hiloc to determine what segment of storage the piece being looked at is in.

ADDARITH:

MACRO **.XUNBOX.**

APRINT:

\PRINTADDR tries to print a lisp address nicely. Uses both HILOC and LOLOC.

ASTACK:

SETSTKNAME ? (HILOC)

CMLARRAY-SUPPORT:

MACRO **%SMALLFIXP-SMALLPOSP** converts smallfixp to a number.(LOLOC)

CMLCHARACTER:

ACCESSFNS **CHARACTER** how to create and access a common lisp character. (loloc)

CL:CHAR-CODE change a character into a #(Loloc)

DEFOPTIMIZER **CL:CHAR-CODE** fast changing of char into code. (loloc)

CL:CODE-CHAR fast checking for smallposp (hiloc)

DEFOPTIMIZER **CL:CODE-CHAR** fast checking for smallposp (hiloc)

CMLEVAL:

DEFSTRUCT **CLOSURE** :print-function to print the ptr (hiloc,loloc)

DEFSTRUCT **ENVIRONMENT** :print-function to print the ptr (hiloc,loloc)

set-symbol checks if environment is the stackhi

CMLSTRING

%%STRING-BASE-COMPARE-EQUAL get the character code from a string of CL:CHARS (loloc)

CMLUNDO

undoably-set-symbol determine if at top of stack. (hiloc)

D-ASSEM

FIXUP-PTR, FIXUP-PTR-NO-REF - ? (loloc,hiloc)

INTERN-DCODE ? (loloc)

DEBUGGER

PRINT-ENTRY-MESSAGE print the condition number...

DLAP - LOLOC/HILOC optimizers to u-code.

DOVEDECLS:

DEFMACRO \DoveIO.IORegionOffset get the right IO region on a dove.(loloc)

DOVEETHER

\DoveEther.Enqueue fill in the "next packet" field.(loloc)

DOVEINPUTOUTPUT

\DoveIO.MakeOpieAddress make the correct opie address out of a lisp addr.(hi,lo)

DTDECLARE:

COMPILEDREPLACEFIELD figure out what to do with an X pointer.

Note:: Both DLION and DOVE disk code also uses LOLOC and HILOC...

—End of message—