api.txt

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VERSION INFO: $Id: api.txt,v 1.1 2000/10/11 22:33:07 cheiny Exp $
Class: DEBUGGER
(debugger 'clock)
Clock the mmp associated with this debugger.
(debugger 'processor)
Return the mmp associated with this debugger.
(debugger 'mpe-debugger n)
Return the nth mpe debugger associated with this debugger.
Class: MPE-DEBUGGER
(mpe-debugger 'debugger)
Return the mmp debugger associated with this mpe debugger.
(mpe-debugger 'unit-number)
Return the unit number of the mpe associated with this debugger.
(mpe-debugger 'processor)
Return the mpe associated with this debugger.
(mpe-debugger 'find-symbol pname)
Find the symbol with the specified name. The symbol name must be a string.
Symbols names are case sensitive.
(mpe-debugger 'find-symbol-or-register pname
Find the symbol or register with the specified name. The symbol name must be
a string. Symbol names are case sensitive.
(mpe-debugger 'runtime-eval expr)
Evaluate an expression in the context of the debugger. This includes bindings for
the symbols *default-mpe* and &p which are bound to the mpe associated with the
debugger and *default-mpe-debugger* and &d which are bound to the debugger itself.
Also, the tilde method of accessing nuon symbols is available within the expression
just like in before and after methods.
(mpe-debugger 'disassemble start count &optional port)
Disassemble instructions starting at the specified address. Instructions are
disassembled and printed to the specified port until count instructions have been
printed.
(disassemble start count &optional port)
Disassemble instructions starting at the specified address.
(mpe-debugger 'clock-mmp)
Clock the mmp associated with this debugger.
(mpe-debugger 'run)
Start the mpe running.
(mpe-debugger 'running?)
Returns #t if the mpe is running and #f otherwise.
(mpe-debugger 'step)
Single step the mpe.
(mpe-debugger 'step-over)
Single step the mpe stepping over subroutines.
(mpe-debugger 'wait-for-halt)
```

Wait for the mpe to halt after run or single step.

detect-conflicts is bound to #t to cause instruction conflicts to be detected. To disable this feature set this to #f.

(select-processor i &optional debugger)
Selectes the specified processor in the specified debugger. The debugger defaults to *default-debugger*.

use-dependencies is bound to #t to indicate that files should only be reassembled if one of the source files they depend on have changed since the last assembly. This is done by reading a dependency list from the object (".mpo") file. To force reassembly on every load or restart set this to #f.

(load-debug-file filename &key debugger)
Load nuon debug file with *default-mpe-debugger* bound to the specified debugger. The debugger defaults to *default-mpe-debugger*.

(load-source-file filename &key initialize? debugger)
Load nuon source code into the mpe associated with the debugger.
The debugger defaults to *default-mpe-debugger*.

(load-object-file filename &key initialize? debugger)
Load nuon object code into the mpe associated with the debugger.
The debugger defaults to *default-mpe-debugger*.

(load-coff-file filename &key initialize? debugger)
Load coff format binary code into the mpe associated with the debugger.
The debugger defaults to *default-mpe-debugger*.

(load-srecord-file filename &key debugger)
Load a motorola s-record file into the mmp associated with the debugger.
The debugger defaults to *default-debugger*.

(load-binary-file addr filename &key debugger)
Load a binary file at the specified address mpe associated with the debugger.
The debugger defaults to *default-debugger*.

HANDY FUNCTIONS

(set-source-path! path &optional debugger)
Set the source path for the specified mpe debugger. The debugger defaults to *default-mpe-debugger*.

(run &optional debugger)

Start the mpe associated with the specified mpe debugger running. Instructions are executed when the mpe is clocked. The debugger defaults to *default-mpe-debugger*.

(stop &optional debugger)

Stop the mpe associated with the specified mpe debugger. The debugger defaults to *default-mpe-debugger*.

(restart &optional debugger)

Restarts the last program loaded into the mpe associated with the specified debugger. The debugger defaults to *default-mpe-debugger*.

(dump &optional debugger)

Dump the registers of the mpe associated with the specified debugger. The debugger defaults to *default-mpe-debugger*.

(write-image name &optional x-size y-size &key base mode mpe)

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Write an image from display memory to a .pcx file. The x-size and y-size parameters default to the display height and width. The base defaults to the start of external ram and the mode defaults to *display-mode*. The mpe defaults to *default-mpe*.

(write-raw-image name &optional x-size y-size &key base mode mpe) Write an image from display memory to a .pcx file. The x-size and y-size parameters default to the display height and width. The base defaults to the start of external ram and the mode defaults to *display-mode*. The mpe defaults to *default-mpe*. This function differs from write-image in that no color space conversion is performed; the Y component of colors is written into the green channel of the output image, Cr into the red, and Cb into the blue.

(runtime-eval expr & optional debugger)
Evalute the specified expression in the debugger context. This includes bindings for the symbols *default-mpe-debugger* and *default-mpe*. The debugger defaults to *default-mpe-debugger*.

(elapsed-ticks &optional processor)
Return the number of elapsed ticks for the specified processor. The processor defaults to *default-mmp*.

(bus-info &optional processor)
Return bus usage information for the specified processor. The processor defaults to *default-mmp*.

(find-symbol pname &optional debugger)
Find the value of the named symbol. The processor defaults to *default-mpe-debugger*.

(make-assembler-command src-file bin-file err-file flags)
The debugger calls this function to build a command line to invoke the assembler. It returns the command line string.

For example:

(make-assembler-command "foo.a" "foo.mpo" "foo.err" "-alpha,broken")