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Name
pep9term -- Translate and run Pep/9 assembly language and microcode
programs.

Usage
pep9term [-h | --help] [-v | --version] [--about]
pep9term asm [-e error_file] -s source_file -o object_file
pep9term run [-i input_file] [-o output_file | --echo-output] [-m
execution_limit] -s source_file
pep9term cpuasm [-e error_file] [-d2 | --dbus-2-byte] [--full-control]
-s source_file
pep9term cpurun [-e error_file] [-d2 | --dbus-2-byte] [--full-control]
[-m execution_limit] [-p unit_test_file] -s source_file


Pep9Term is a  command line tool utility for interacting with the Pep9
virtual machine. It assembles Pep/9 programs to object code and
executes object code programs. Additionally, it checks microcode
programs for errors and executes microcode programs with optional
preconditions.



Options:
  --help                     Show help information for all
subcommands and exit.
  -v,--version               Display program version number.
  --about                    Display information about licensing, Qt,
and developers.


Subcommands:
asm
  pep9term asm [-e error_file] -s source_file -o object_file
  Assemble a Pep/9 assembler source code program to object code. The
source_file must be a .pep file. The object_file must be a .pepo file.
If there are assembly errors an error log file named
<source_file>_errLog.txt is created with the error messages.
<source_file> is the name of source_file without the .pep extension.
If there are no errors the error log file is not created.
  Options:
    -e TEXT                    Override the default error log file,
which contains assembly errors. If no errors are present, no data will
be written to the file.
    -s TEXT REQUIRED           Input Pep/9 source program for
assembler.
    -o TEXT REQUIRED           Output object code generated from
source.

run
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  pep9term run [-i input_file] [-o output_file | --echo-output] [-m
execution_limit] -s source_file
  Run a Pep/9 object code program. The source_file must be a .pepo
file.
  Options:
    -s TEXT REQUIRED            Input Pep/9 object code program for
simulator.
    -i TEXT                     File which will be buffered behind the
charIn.
    -o TEXT                     File which charOut will be written to.
    --echo-output               Echo data written to charOut to the
terminal.
    -m UINT:POSITIVE=25000      The maximum number of assembly
instructions executed before aborting. Defaults to 25000

cpuasm
  pep9term cpuasm [-e error_file] [-d2 | --dbus-2-byte] [--full-
control] -s source_file
  Check a Pep/9 microcode program for syntax errors. The source_file
must be a .pepcpu file. If there are micro-assembly errors an error
log file named <source_file>_errLog.txt is created with the error
messages. <source_file> is the name of source_file without the .pepcpu
extension. If there are no errors the error log file is not created.
Supports 1- and 2-byte data buses with the 1-byte data bus as the
default. Supports the extended control section for running complete
assembly language programs at the microcode level, with partial
control using UnitPost tests as the default.
  Options:
    -e TEXT                     Override the default error log file,
which contains assembly errors. If no errors are present, no data will
be written to the file.
    --mc TEXT REQUIRED          Input Pep/9 microcode source program
for microassembler.
    --dbus-2-byte,--d2          Assemble the microcode program with a
2-byte data bus (default is 1-byte).
    --full-control Needs: --dbus-2-byte
                                Assemble the microprogram with the
full control section (default is partial control section).

cpurun
  pep9term cpurun [-e error_file] [-d2 | --dbus-2-byte] [--full-
control] [-m execution_limit] [-p unit_test_file] -s source_file
  Assemble and run a Pep/9 microcode program. The source_file must be
a .pepcpu file. If there are micro-assembly errors or UnitPost errors
an error log file named <source_file>_errLog.txt is created with the
error messages. <source_file> is the name of source_file without
the .pepcpu extension. If there are no errors the error log file is
not created. Supports 1- and 2-byte data buses with the 1-byte data
bus as the default. Supports the extended control section for running
complete assembly language programs at the microcode level, with
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partial control using UnitPost tests as the default.
  Options:
    -e TEXT                     Override the default error log file,
which contains assembly or postcondition errors. If no errors are
present, no data will be written to the file.
    --mc TEXT REQUIRED          Input Pep/9 microcode source program
for microassembler.
    --dbus-2-byte,--d2          Assemble the microcode program with a
2-byte data bus (default is 1-byte).
    --full-control Needs: --dbus-2-byte
                                Assemble the microprogram with the
full control section (default is partial control section).
    -m UINT:POSITIVE=250000 Needs: --full-control
                                The maximum number of CPU cycles
executed before aborting. Defaults to 250000
    -p TEXT                     Pep/9 Microcode file containg pre- and
post-conditions. Using this flag overrides and skipps any pre- and
post-conditions in the microcode source file provided with (--mc).
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