NAME

qcvm — A standalone QuakeC VM binary executor

SYNOPSIS

qcvm [options] [parameters] program-file

DESCRIPTION

qcvm is an executor for QuakeC VM binary files created using a QC compiler such as gmqcc(1) or fteqcc. It provides a small set of builtin functions, and by default executes the **main**() function if there is one. Some options useful for debugging are available as well.

OPTIONS

There are 2 types of options. Options for the executor, and parameter options used to add parameters which are passed to the main function on execution.

-h, --help

Show a usage message and exit.

-trace

Trace the execution. Each instruction will be printed to stdout before executing it.

-profile

Perform some profiling. This is currently not really implemented, the option is available nonetheless.

-info

Print information from the program's header instead of executing.

-disasm

Disassemble the program by function instead of executing.

-disasm-func function

Search for and disassemble the given function.

-printdefs

List all entries from the program's defs-section. Effectively listing all the global variables of the program. This option disables execution.

-printfields

List all entries from the program's fields-section. Listing all entity-fields declared in the program. This option disables execution.

-printfuns

List functions and some information about their parameters. This option disables execution. With a verbosity level of 1, builtin numbers are printed. With a verbosity of 2, the function's sizes are printed as well. This takes a little longer since the size is found by searching for a DONE instruction in the code.

-v Increase verbosity level, can be used multiple times.

-vector 'x y z'

Append a vector parameter to be passed to **main**().

-float number

Append a float parameter to be passed to main().

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-string 'text'
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Append a string parameter to be passed to **main**().

BUILTINS

The following builtin functions are available:

- 1) void print (string...) = #1; Print the passed strings to stdout. At most 8 strings are allowed.
- 2) string ftos(float) = #2; Convert a float to a string.
- 3) entity spawn() = #3; Spawn an entity.
- 4) void remove (entity) = #4; Remove an entity.
- 5) string vtos(vector) = #5; Convert a vector to a string.
- 6) void error(string...) = #6;
 Print strings to stdout and then exit with an error (limited to 8 arguments)
- 7) float vlen(vector) = #7; Get the length of a vector.
- 8) string etos(entity) = #8; Get the entity ID as string.
- 9) float stof(string) = #9; Convert a string to a float.
- 10) string strcat(string, string) = #10; Concatenate two strings, returning a tempstring.
- 11) float strcmp(string, string) = #11;
- 12) float strncmp(string, string, float) = #11; Compare two strings. Returns the same as the corresponding C functions.
- 12) vector normalize(vector) = #12; Normalize a vector so its length is 1.
- 13) float sqrt(float) = #13; Get a value's square root.

SEE ALSO

gmqcc(1)

AUTHOR

See http://graphitemaster.github.com/gmqcc>.

BUGS

Please report bugs on http://graphitemaster/gmqcc/issues, or see http://graphitemaster.github.com/gmqcc on how to contact us.