NAME

llvm-extract - extract a function from an LLVM module

SYNOPSIS

llvm-extract [*options*] **--func** *function-name* [*filename*]

DESCRIPTION

The **llvm-extract** command takes the name of a function and extracts it from the specified LLVM bitcode file. It is primarily used as a debugging tool to reduce test cases from larger programs that are triggering a bug.

In addition to extracting the bitcode of the specified function, **llvm-extract** will also remove unreachable global variables, prototypes, and unused types.

The **llvm-extract** command reads its input from standard input if filename is omitted or if filename is **-**. The output is always written to standard output, unless the **-o** option is specified (see below).

OPTIONS

--alias *alias-name*

Extract the alias named *function-name* from the LLVM bitcode. May be specified multiple times to extract multiple alias at once.

--ralias *alias-regular-expr*

Extract the alias matching *alias-regular-expr* from the LLVM bitcode. All alias matching the regular expression will be extracted. May be specified multiple times.

--bb *basic-block-specifier*

Extract basic blocks(s) specified in *basic-block-specifier*. May be specified multiple times. Each <function:bb[;bb]> specifier pair will create a function. If multiple basic blocks are specified in one pair, the first block in the sequence should dominate the rest.

--delete

Delete specified Globals from Module.

-f

Enable binary output on terminals. Normally, **llvm-extract** will refuse to write raw bitcode output if the output stream is a terminal. With this option, **llvm-extract** will write raw bitcode regardless of the output device.

--func *function-name*

Extract the function named *function-name* from the LLVM bitcode. May be specified multiple times to extract multiple functions at once.

--rfunc *function-regular-expr*

Extract the function(s) matching *function-regular-expr* from the LLVM bitcode. All functions matching the regular expression will be extracted. May be specified multiple times.

--glob *global-name*

Extract the global variable named *global-name* from the LLVM bitcode. May be specified multiple times to extract multiple global variables at once.

--rglob *glob-regular-expr*

Extract the global variable(s) matching *global-regular-expr* from the LLVM bitcode. All global variables matching the regular expression will be extracted. May be specified multiple times.

--keep-const-init

Preserve the values of constant globals.

--recursive

Recursively extract all called functions

-help

Print a summary of command line options.

-o *filename*

Specify the output filename. If filename is "-" (the default), then **llvm-extract** sends its output to standard output.

-S

Write output in LLVM intermediate language (instead of bitcode).

EXIT STATUS

If **llvm-extract** succeeds, it will exit with 0. Otherwise, if an error occurs, it will exit with a non-zero value.

SEE ALSO

bugpoint(**1**)

AUTHOR

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