NAME

rgbasm — Game Boy assembler

SYNOPSIS

DESCRIPTION

The **rgbasm** program creates an object file from an assembly source file. The input *file* can be a file path, or **-** denoting **stdin**. Its arguments are as follows:

-h chars

Change the two characters used for binary constants. The defaults are 01.

-D name[=value]

Add string symbol to the compiled source code. This is equivalent to name **EQUS** "value" in code. If a value is not specified, a value of 1 is given.

- **-E** Export all labels, including unreferenced and local labels.
- -g chars

Change the four characters used for binary constants. The defaults are 0123.

- -h By default, rgbasm inserts a 'nop' instruction immediately after any 'halt' instruction. The -h option disables this behavior.
- -i path

Add an include path.

- -L Disable the optimization that turns loads of the form LD [\$FF00+n8],A into the opcode LDH [\$FF00+n8],A in order to have full control of the result in the final ROM.
- -M dependfile

Print make(1) dependencies to dependfile.

-o outfile

Write an object file to the given filename.

-p pad_value

When padding an image, pad with this value. The default is 0x00.

-r recursion_depth

Specifies the recursion depth at which RGBASM will assume being in an infinite loop.

- **-v** Print the version of the program and exit.
- -v Be verbose.
- **-w** Disable warning output.

EXAMPLES

You can assemble a source file in two ways. Straight forward way:

```
$ rgbasm -o bar.o foo.asm
```

Pipes way:

```
$ cat foo.asm | rgbasm -o bar.o -
$ rgbasm -o bar.o - < foo.asm</pre>
```

The resulting object file is not yet a usable ROM image — it must first be run through rgblink(1) and rgbfix(1).

SEE ALSO

rgbasm(5), rgbfix(1), rgblink(1), rgbds(5), rgbds(7), gbz80(7)

HISTORY

rgbasm was originally written by Carsten Sørensen as part of the ASMotor package, and was later packaged in RGBDS by Justin Lloyd. It is now maintained by a number of contributors at https://github.com/rednex/rgbds