

make V=1 or Q= for verbose?

04/27/2022 12:24 PM - jaruga (Jun Aruga)

Status:	Closed	
Priority:	Normal	
Assignee:		
Description This is a question about make V=1 and make Q=. Seeing the code, it seems make V=1 is for a kind of official use rather than make Q=. https://github.com/ruby/ruby/blob/0bab4c4addef3421f8ff1c45564f4a392b860f15/common.mk#L9-L15 However when I tested how to log between make V=1 and make Q= on the latest master 0bab4c4addef3421f8ff1c45564f4a392b860f15. Against my expectation, the result was that the Q= printed more log than V=1. I would attach the log files. Is it intentional? <pre>autoconf ./configure make Q= 2>&1 tee make_q.log autoconf ./configure make V=1 2>&1 tee make_v1.log \$ diff make_q.log make_v1.log head -10 19d18 < compiling ./main.c 21d19 < compiling dmydln.c 23d20 < generating id.h 27d23 < generating miniprelude.c 31d26 < compiling miniinit.c</pre> I am trying to find which part prints the ...ing <file path> lines to the log. The lines below might be clue. But I am not sure about it so far due to my limitation of understanding Makefile syntax. https://github.com/ruby/ruby/blob/0bab4c4addef3421f8ff1c45564f4a392b860f15/template/Makefile.in#L9 <pre>ECHO1 = \$(V:1=\$n)</pre> https://github.com/ruby/ruby/blob/0bab4c4addef3421f8ff1c45564f4a392b860f15/template/exts.mk.tmpl#L6 <pre>ECHO1 = \$(V:1=\$n) ECHO = \$(ECHO1:0=@echo)</pre>		

History

#1 - 04/27/2022 12:34 PM - jaruga (Jun Aruga)

I would attach the log files.

Oh I couldn't upload the log files due to "Internal Server Error" on Redmine..

#2 - 04/28/2022 03:44 PM - jaruga (Jun Aruga)

- File make_q.log added
- File make_v1.log added

#3 - 04/28/2022 03:45 PM - jaruga (Jun Aruga)

Oh I couldn't upload the log files due to "Internal Server Error" on Redmine..

I uploaded the log files now, as the internal server error issue above was fixed.

#4 - 05/02/2022 05:57 PM - jaruga (Jun Aruga)

- File `make_main_o_q_debug.log` added

- File `make_main_o_v1_debug.log` added

- Status changed from Open to Closed

To simplify the difference, I tested only running the target `$(MAINOBJ)` in `uncommon.mk`, adding the debug log below in `uncommon.mk`.

```
$(MAINOBJ): $(srcdir)/$(MAINSRC)
    @echo "n: $(n) "
    @echo "V: $(V) "
    @echo "Q: $(Q) "
    @echo "ECHO1: $(ECHO1) "
    @echo "ECHO0: $(ECHO0) "
    @echo "ECHO: $(ECHO) "
    $(ECHO) compiling $(srcdir)/$(MAINSRC)
    $(Q) $(CC) $(MAINCPPFLAGS) $(CFLAGS) $(XCFLAGS) $(CPPFLAGS) $(COUTFLAG) $@ -c $(CSRFLAG) $(srcdir)/$(MAINSRC)
C)
```

I executed as follows.

```
git clean -fdx
autoconf
./configure
```

In the case of `Q=`, the compiling `./main.c` is printed.

```
rm main.o
make Q= main.o 2>&1 | tee make_main_o_q_debug.log
n: :
V: 0
Q:
ECHO1: 0
ECHO0: echo
ECHO: @echo
compiling ./main.c
gcc -O3 -fno-fast-math -ggdb3 -Wall -Wextra -Werror=deprecated-declarations -Werror=div-by-zero -Werror=duplicated-cond -Werror=implicit-function-declaration -Werror=implicit-int -Werror=misleading-indentation -Werror=pointer-arith -Werror=write-strings -Werror=old-style-definition -Wimplicit-fallthrough=0 -Wmissing-noreturn -Wno-cast-function-type -Wno-constant-logical-operand -Wno-long-long -Wno-missing-field-initializers -Wno-overlength-strings -Wno-packed-bitfield-compat -Wno-parentheses-equality -Wno-self-assign -Wno-tautological-compare -Wno-unused-parameter -Wno-unused-value -Wsuggest-attribute=format -Wsuggest-attribute=noreturn -Wunused-variable -Werror=undef -std=gnu99 -D_FORTIFY_SOURCE=2 -fstack-protector-strong -fno-strict-overflow -DRUBY_DEVEL=1 -fvisibility=hidden -fexcess-precision=standard -DRUBY_EXPORT -fPIE -I. -I.ext/include/x86_64-linux -I./include -I. -I./enc/unicode/14.0.0 -o main.o -c ./main.c
```

In the case of `V=1`, the compiling `./main.c` is not printed.

```
rm main.o
make V=1 main.o 2>&1 | tee make_main_o_v1_debug.log
n: :
V: 1
Q:
ECHO1: :
ECHO0: :
ECHO: @:
gcc -O3 -fno-fast-math -ggdb3 -Wall -Wextra -Werror=deprecated-declarations -Werror=div-by-zero -Werror=duplicated-cond -Werror=implicit-function-declaration -Werror=implicit-int -Werror=misleading-indentation -Werror=pointer-arith -Werror=write-strings -Werror=old-style-definition -Wimplicit-fallthrough=0 -Wmissing-noreturn -Wno-cast-function-type -Wno-constant-logical-operand -Wno-long-long -Wno-missing-field-initializers -Wno-overlength-strings -Wno-packed-bitfield-compat -Wno-parentheses-equality -Wno-self-assign -Wno-tautological-compare -Wno-unused-parameter -Wno-unused-value -Wsuggest-attribute=format -Wsuggest-attribute=noreturn -Wunused-variable -Werror=undef -std=gnu99 -D_FORTIFY_SOURCE=2 -fstack-protector-strong -fno-strict-overflow -DRUBY_DEVEL=1 -fvisibility=hidden -fexcess-precision=standard -DRUBY_EXPORT -fPIE -I. -I.ext/include/x86_64-linux -I./include -I. -I./enc/unicode/14.0.0 -o main.o -c ./main.c
```

The difference comes from the ECHO1 setting in Makefile.in. In my assumption on the line, if V equals 1 the ECHO1 is set as \$n (= :), otherwise ECHO1 is set as the value of V. I couldn't find the this syntax in the [GNU make official document](#).

<https://github.com/ruby/ruby/blob/049303eff39d654f198b441e8e5f0f5b75a25e74/template/Makefile.in#L9>

ECHO1 = \$(V:1=\$n)

So, my conclusion is the current logic for V and Q is intentional. And I would close this ticket.

#5 - 05/02/2022 06:05 PM - jaruga (Jun Aruga)

- Status changed from Closed to Feedback

So, my conclusion is the current logic for V and Q is intentional. And I would close this ticket.

Sorry for confusion. I changed my mind. I want to make V=1 print the logs like current Q=, because I think when users set make V=1, they expect verbose.

#6 - 05/02/2022 07:18 PM - jaruga (Jun Aruga)

I sent the PR <https://github.com/ruby/ruby/pull/5875>.

#7 - 05/03/2022 04:59 PM - nobu (Nobuyoshi Nakada)

Do not use Q=.
Q, Q1 and V1 are intermediate variables.
You may want to set ECHO0=echo unconditionally.

#8 - 05/04/2022 04:47 PM - jaruga (Jun Aruga)

- Status changed from Feedback to Closed

nobu (Nobuyoshi Nakada) wrote in [#note-7](#):

Do not use Q=.
Q, Q1 and V1 are intermediate variables.
You may want to set ECHO0=echo unconditionally.

Thanks for the info. I see a little bit difference of printed logs between make Q=, make install Q= and make V=1 ECHO0=echo and make install V=1 ECHO0=echo. But that's fine with me. I will use the V=1 ECHO0=echo.

Files

make_q.log	442 KB	04/28/2022	jaruga (Jun Aruga)
make_v1.log	440 KB	04/28/2022	jaruga (Jun Aruga)
make_main_o_q_debug.log	1001 Bytes	05/02/2022	jaruga (Jun Aruga)
make_main_o_v1_debug.log	976 Bytes	05/02/2022	jaruga (Jun Aruga)