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request for comments, finding errors in the build, and using set -e

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[Quoted text hidden]

I think you have found that exporting SHELLOPTS breaks configure scripts. Looks like nobody ever tried this in about 30 years of autoconf tools existence :)

for the "gcc -V" behavior: yes, this switch does not exist, but configure, which has been designed to test the presence of every compiler it knows about, runs that command as a test (looks like some compiler had this switch at some point during autotools life, that is in the past 30 years or so) and takes action depending on the return value. This command always return an error code nowadays, and since you have enabled -e in all subshells (including the one that interprets configure) by exporting SHELLOPTS, the configure scripts exits immediately...

for the ">&5" construct, see man bash. configure creates file descriptors for its various outputs (console and log). See also "man bash" for redirection.

For the build "health": usually, if configure ends without error, we consider this part was good (but it supposes switches were correctly passed, something that set -e would not detect anyway).

For compilation errors during make, you can grep for "error:". With the colon, it eliminates a lot of false positives. For other errors, well you can try the regular expression "**\\.error" that gives you submakes errors. Then try to find the first submake error, and try to find above what happened. Use make -O (oh, not zero) if you use -jn to get the output ordered.

Pierre

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