

rust newer than 1.82.0 unable to build firefox on NetBSD "i386" port (really i586 or i686 in 32-bit mode) #143904

New issue

Open

he32

Last edited by workingjubilee

Contributor

opened on Jul 13, 2025

Code

It appears that rust versions newer than 1.82.0 fail to build recent firefox versions on NetBSD's "i386" port (which covers i486, i586 and i686, but since we provide rust only for i586 or above, that's the sub-parts which are affected). All these are "ILP32" ports, and provide a maximum per-process data segment size somewhere around 3GB.

The testing scoreboard I've created looks like this:

firefox version	rust version	result
138.0.4	1.82.0	OK
138.0.4	1.83.0	failed: Cannot allocate memory (os error 12)
138.0.4	1.85.0	failed: Cannot allocate memory (os error 12)
138.0.4	1.86.0	failed: error: could not compile style (lib)
135.0.1	1.87.0	failed: Cannot allocate memory (os error 12)
136.0.2	1.87.0	failed: memory allocation of 71061296 bytes failed
137.0.2	1.87.0	failed: rustc-LLVM ERROR: out of memory
138.0.4	1.88.0	failed: rustc-LLVM ERROR: out of memory

A typical build error looks like this:

```
Compiling mls-platform-api v0.1.0 (https://github.com/b...
Compiling neqo-http3 v0.11.0 (https://github.com/mozill...
Compiling socket2 v0.4.999 (/usr/pkgsrc/www/firefox/work/fire
Compiling storage v0.1.0 (/usr/pkgsrc/www/firefox/work/firefc
Compiling dogear v0.5.0
error: failed to build archive at `/usr/pkgsrc/www/firefox/work/

error: could not compile `style` (lib) due to 1 previous error
warning: build failed, waiting for other jobs to finish...
```

and it goes downhill from there.

Version it worked on

It most recently worked on: version 1.82.0.

Version with regression

```
rustc --version --verbose :

$ rustc --version --verbose
rustc 1.88.0 (6b00bc388 2025-06-23) (built from a source tarball)
binary: rustc
commit-hash: 6b00bc3880198600130e1cf62b8f8a93494488cc
commit-date: 2025-06-23
host: i586-unknown-netbsd
release: 1.88.0
LLVM version: 19.1.7
$
```

This is with an externally built LLVM. The same problem occurs with the internal LLVM.

Assignees

No one assigned

Labels

C-bug I-compilemem O-x86_32 T-compiler regression-from-stable-to-stable

Type

No type

Projects

No projects

Milestone

No milestone

Relationships

None yet

Development

No branches or pull requests

Participants

+3

Open in GitHub Copilot app

- he32 added C-bug regression-untriag... on Jul 13, 2025

rustbot added needs-triage I-prioritize on Jul 13, 2025

Noratrieb added T-compiler regression-from-st... and removed I-prioritize regression-untriag... needs-triage on Jul 14, 2025

rustbot added I-prioritize on Jul 14, 2025

Noratrieb added I-compilemem O-x86_32 on Jul 14, 2025

Noratrieb on Jul 14, 2025

workingjubilee on Jul 14, 2025 · Hidden as outdated

workingjubilee on Jul 14, 2025
- Compiling Firefox on a 32 bit machine seems adventurous.
- 😊

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Oh, the matrix is given, sorry, my eyes glazed over.

8 remaining items

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