Ruby master - Bug #18556

error: use of undeclared identifier 'MAP_ANONYMOUS'

01/29/2022 03:08 AM - ryandesign (Ryan Schmidt)

Status: Closed
Priority: Normal
Assignee: 
Target version: 
ruby -v: 3.1.0
Backport: 2.6: DONTNEED, 2.7: DONTNEED, 3.0: DONTNEED, 3.1: DONE

Description
ruby 3.1.0 fails to build on older versions of macOS such as OS X 10.10.5:

gc.c:11141:88: error: use of undeclared identifier 'MAP_ANONYMOUS'
    char *ptr = mmap(NULL, alignment + size, PROT_READ | PROT_WRITE, MAP_PRIVATE | MAP_ANONYMOUS, -1, 0);

1 error generated.

MAP_ANONYMOUS used to be called MAP_ANON on older systems; I suggest either using MAP_ANON everywhere you're using MAP_ANONYMOUS, or else add a block like this somewhere central that each of those files uses:

```c
#ifdef MAP_ANONYMOUS
#define MAP_ANONYMOUS MAP_ANON
#endif
```

or

```c
#if !defined(MAP_ANONYMOUS) && defined(MAP_ANON)
#define MAP_ANONYMOUS MAP_ANON
#endif
```

(Such blocks already occur in multiple places under ext/fiddle/libffi-3.2.1 in the ruby 3.1.0 source code.)

Associated revisions

Revision 674729f - 01/29/2022 10:07 AM - nobu (Nobuyoshi Nakada)
[Bug#18556] Fallback MAP_ANONYMOUS

Define MAP_ANONYMOUS to MAP_ANON if undefined on old systems.

Revision e54289bb - 02/07/2022 10:55 AM - naruse (Yui NARUSE)

merge revision(s) 674729: [Backport #18556]

```
[Bug#18556] Fallback `MAP_ANONYMOUS`

Define `MAP_ANONYMOUS` to `MAP_ANON` if undefined on old systems.
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gc.c | 4 ++++
1 file changed, 4 insertions(+)
```

History

#1 - 01/29/2022 07:28 AM - nobu (Nobuyoshi Nakada)

- Backport changed from 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN, 3.1: UNKNOWN to 2.6: DONTNEED, 2.7: DONTNEED, 3.0: DONTNEED, 3.1: REQUIRED

https://github.com/ruby/ruby/pull/5506

#2 - 02/04/2022 09:04 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Open to Closed
Backport changed from 2.6: DONTNEED, 2.7: DONTNEED, 3.0: DONTNEED, 3.1: REQUIRED to 2.6: DONTNEED, 2.7: DONTNEED, 3.0: DONTNEED, 3.1: DONE

ruby_3_1 e54289bb632047b750f9c9371410d1adff2a740a merged revision(s) 67f4729.