# Commit

**gh-99540**: Constant hash for _PyNone_Type to aid reproducibility (**GH-9...**
...9541**)**

Browse files

Needed for ASLR builds of Python.

⌥ **main** (#99541)
⌖ **v3.14.0a4**  ···  v3.12.0a4

yonillasky authored on Dec 17, 2022  Verified          1 parent  a5a7cea     commit  432117c

Showing **2 changed files** with **7 additions** and **1 deletion**.

Whitespa...    Ignore whitespace    Split    Unifi...

Filter changed files

⌄ ▭ Misc/NEWS.d/next/Core ...
   ▯ 2022-12-10-20-00-1...  ⊞

⌄ ▭ Objects
   ▯ object.c  ◻

⌄  1  ▪▭▭▭▭

Misc/NEWS.d/next/Core and Builtins/2022-12-10-20-00-13.gh-is...  ⎘

```
...   ...      @@ -0,0 +1 @@
      1   + ``None`` now hashes to a constant value. This is not
            a requirements change.
```

```
      7 ▪▪▪▪▫  Objects/object.c

1641  1641          return 0;
1642  1642      }
1643  1643
      1644    + static Py_hash_t none_hash(PyObject *v)
      1645    + {
      1646    +     return 0xFCA86420;
      1647    + }
      1648    +
1644  1649      static PyNumberMethods none_as_number = {
1645  1650          0,                          /* nb_add */
1646  1651          0,                          /* nb_subtract */
1692  1697          &none_as_number,     /*tp_as_number*/
1693  1698          0,                        /*tp_as_sequence*/
1694  1699          0,                        /*tp_as_mapping*/
1695        -      0,                          /*tp_hash */
      1700    +     (hashfunc)none_hash,/*tp_hash */
1696  1701          0,                        /*tp_call */
1697  1702          0,                        /*tp_str */
1698  1703          0,                        /*tp_getattro */
```

**0 comments on commit** `432117c`

Please <u>sign in</u> to comment.