

[Python-Dev] datetime +/- scalars (int, long, float)?

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Would it be good to allow adding/subtracting scalars (int, long, float) to/from date/times? The scalar value would be # of seconds.

So:

```
dt = datetime() # some date/time
dt + 5 # would add 5 seconds
dt + 5.3 # would add 5 seconds 300000 usecs
```

If so, attached is a patch.

Neal

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Index: sandbox/datetime/datetime.py

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RCS file: /cvsroot/python/python/nondist/sandbox/datetime/datetime.py,v
retrieving revision 1.22

diff -w -u -r1.22 datetime.py

--- sandbox/datetime/datetime.py 3 Mar 2002 06:11:54 -0000 1.22

+++ sandbox/datetime/datetime.py 3 Mar 2002 14:26:19 -0000

@@ -590,6 +590,13 @@

```
        result.__microsecond = us
        result.__tzoffset = self.__tzoffset
        return result
```

```
+ elif isinstance(other, (int, long)):
+     return self + timedelta(0, other)
+ elif isinstance(other, float):
+     # XXX not sure if float needs it's own condition or
+     # XXX should work the same as int/long
+     ss, us = divmod(other, 1000000)
+     return self + timedelta(0, ss, int(us))
+     return NotImplemented
```

__radd__ = __add__

@@ -598,6 +605,13 @@

```
"Subtract two datetimes, or a datetime and a timedelta."
if isinstance(other, timedelta):
    return self + -other
+ elif isinstance(other, (int, long)):
+     return self + -timedelta(0, other)
+ elif isinstance(other, float):
+     # XXX not sure if float needs it's own condition or
+     # XXX should work the same as int/long
+     ss, us = divmod(other, 1000000)
+     return self + -timedelta(0, ss, int(us))
if isinstance(other, datetime):
    days1 = self.toordinal()
    days2 = other.toordinal()
```

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