NAME

```
sleep — do nothing, slowly
```

SYNOPSIS

```
sleep delay[smhdwy]...
```

DESCRIPTION

Sleep for the time(s) specified. Each *delay* is a floating-point amount of seconds, optionally suffixed with one of the following cumulative multipliers:

```
    s(econds) 1
    m(inutes) 60
    h(hours) 60
    d(ays) 24
    w(eeks) 7
    y(ears) 365,25 / 7
```

EXAMPLES

```
Wait a half-second:
```

```
sleep 0.5 sleep 1.388e-4h
```

Wait a year:

```
sleep 1y
sleep 3.1e+7
```

Wait infinitely, or until the heat death of the universe:

```
sleep INF
sleep 10e+100y
```

SEE ALSO

nanosleep(2)

STANDARDS

Conforms to IEEE Std 1003.1-2024 ("POSIX.1"), which only allows a single non-negative decimal integer delay. Multiple, floating-point delays and **smhd** suffixes are extensions, originating from the GNU system. **wy** suffixes are extensions.

HISTORY

```
sleep(II) ("delay execution") appeared in Version 2 AT&T UNIX:
```

```
NAME sleep -- stop execution for interval SYNOPSIS (60ths of a second in r0) sys sleep - 35.; not in assembler
```

With the **BUGS** noting accuracy up to $\frac{256}{60}$ = 4.2(6) seconds, and the process being also placed on a low-priority queue for the duration of the sleep.

Version 3 AT&T UNIX sleep(II) takes whole seconds, but the precision limitations remain.

Version 4 AT&T UNIX sees full-range sleep(II), and sleep(I) — "suspend execution for an interval", limited to **65536** (16 bits, unsigned, but it's more likely actually **32767**, int) seconds (this is noted in the **BUGS**, despite being entirely expected with a 16-bit r0 on a 16-bit machine).

Version 7 AT&T UNIX replaces sleep(II) with ftime(2) and implements sleep(3), based on alarm(2), pause(2), and longjmp(3), in Standard C Library (libc, -lc), but leaves sleep unchanged.

Version 32V AT&T UNIX just blindly updates the **BUGS** to say that the max is **2147483647** seconds. Considering this is now 68 *years*, rather than the 18ish hours (or, indeed, 9ish, as the case may be), this raises question about the fore-seen use-cases.

This **sleep** implementation persists into AT&T UNIX and the BSD (but Version 3 AT&T UNIX and 4.2BSD cool it on the longjmp(3)s in sleep(3)), and is standardised verbatim in X/Open Portability Guide Issue 2 ("XPG2").