

Hack4Glarus Summer 2019

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- ▶ ISO/IEC 9899:201x Annex G

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- ▶ `assertion "((void)(cexp), fetestexcept((0x04 | 0x20 | 0x01 | 0x08 | 0x10)) == (0))" failed:
file "cexp_test.c", line ..., function ...`

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```
double complex
cexp(double complex z)
{
    double x, y, exp_x;
    uint32_t hx, hy, lx, ly;
    x = creal(z);
    y = cimag(z);
    EXTRACT_WORDS(hy, ly, y);
    hy &= 0x7fffffff;
    if ((hy | ly) == 0)
        return (CMPLX(exp(x), y));
    EXTRACT_WORDS(hx, lx, x);
    if (((hx & 0x7fffffff) | lx) == 0)
        return (CMPLX(cos(y), sin(y)));
```

...

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- ▶ I tested the patches on amd64 and i386
- ▶ but more of the FreeBSD tests are still failing on OpenBSD
- ▶ But I got a patch for a failing i386 test case into FreeBSD