

The GCC Quad-Precision Math Library

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`cexpiq`: computes the exponential function of “i” times a
real value

`clogq`: complex natural logarithm

`clog10q`: complex base 10 logarithm

`conjq`: complex conjugate function

`cpowq`: complex power function

`cprojq`: project into Riemann Sphere

`csinq`: complex sine function

`csinhq`: complex hyperbolic sine function

`csqrtq`: complex square root

`ctanq`: complex tangent function

`ctanhq`: complex hyperbolic tangent function


```

int width = 46;
char buf[128];

r = 2.0q;
r = sqrtq (r);
int n = quadmath_snprintf (buf, sizeof buf, "%+-.#*.20Qe", width, r);
if ((size_t) n < sizeof buf)
    printf ("%s\n", buf);
    /* Prints: +1.41421356237309504880e+00 */
quadmath_snprintf (buf, sizeof buf, "%Qa", r);
if ((size_t) n < sizeof buf)
    printf ("%s\n", buf);
    /* Prints: 0x1.6a09e667f3bcc908b2fb1366ea96p+0 */
n = quadmath_snprintf (NULL, 0, "%+-.#46.*Qe", prec, r);
if (n > -1)
{
    char *str = malloc (n + 1);
    if (str)
    {
        quadmath_snprintf (str, n + 1, "%+-.#46.*Qe", prec, r);
        printf ("%s\n", str);
        /* Prints: +1.41421356237309504880e+00 */
    }
    free (str);
}
return 0;
}

```


4 Reporting Bugs

Bugs in the GCC Quad-Precision Math Library implementation should be reported via <https://gcc.gnu.org/bugs/>.