

new/usr/src/lib/libc/amd64/fp/_base_il.c

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2438 Thu Oct 23 17:13:36 2014

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patch mul-ste

```
1 /*
2  * CDDL HEADER START
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20 */

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25  */

27 #pragma ident      "%Z%M% %I%      %E% SMI"

29 #include "lint.h"
30 #include "base_conversion.h"
31 #include <sys/isa_defs.h>

33 #define CSR_DEFAULT 0x1f80

35 /* The following should be coded as inline expansion templates. */

37 /*
38  * Multiplies two normal or subnormal doubles, returns result and exceptions.
39  */
40 double
41 __mul_set(double x, double y, int *pe) {
42     int csr = CSR_DEFAULT;
43     extern void _putmxcsr(), _getmxcsr();
44     int csr;
45     double z;

46     __asm__ __volatile__(
47         "ldmxcsr    %4\n"
48         "mulsd     %2,%3\n"
49         "stmxcscr  %0\n"
50         : "=m" (csr), "=C" (z)
51         : "C" (x), "C" (y), "m" (csr));

46     _putmxcsr(CSR_DEFAULT);
47     z = x * y;
48     _getmxcsr(&csr);
52     if ((csr & 0x3f) == 0) {
53         *pe = 0;
54     } else {
55         /* Result may not be exact. */
56         *pe = 1;
```

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57     }
58     return (z);
59 }
_____unchanged_portion_omitted_
```