NAME

ldiv, lrem − long division

SYNOPSIS

ldiv (hidividend, lodividend, divisor)

lrem (hidividend, lodividend, divisor)

DESCRIPTION

The concatenation of the signed 16-bit *hidividend* and the unsigned 16-bit *lodividend* is divided by *divisor.* The 16-bit signed quotient is returned by *ldiv* and the 16-bit signed remainder is returned by *lrem.* Divide check and erroneous results will occur unless the magnitude of the divisor is greater than that of the high-order dividend.

An integer division of an unsigned dividend by a signed divisor may be accomplished by

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quo = ldiv(0, dividend, divisor);
```

and similarly for the remainder operation.

Often both the quotient and the remainder are wanted. Therefore*ldiv* lea ves a remainder in the external cell *ldivr.*

BUGS

No divide check check.