

**HYPOT(III)**

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**NAME**

hypot — calculate hypotenuse

**SYNOPSIS**

**jsr r5,hypot**

**DESCRIPTION**

The square root of  $fr0 \times fr0 + fr1 \times fr1$  is returned in  $fr0$ . The calculation is done in such a way that overflow will not occur unless the answer is not representable in floating point.

**DIAGNOSTICS**

The c-bit is set if the result cannot be represented.

**BUGS**