

**NAME**

atoi – ascii to integer

**SYNOPSIS**

**jsr r5,atoi; subr**

**DESCRIPTION**

*Atoi* will convert an ascii stream to a binary number returned in r1.

The subroutine *subr* (supplied by the caller) is called on r5 for each character of the ascii stream. *Subr* should return the character in r0. The first character not used in the conversion is left in r0.

The numbers recognized are: an optional minus sign followed by a string of digits.

The subroutine *subr* must not disturb any registers.

**DIAGNOSTICS**

There are none; the routine charges on regardless of consequences.

**BUGS**

It pays no attention to overflow; you get whatever the machine instructions *mul* and *div* happen to leave in the low order half. In fact, the carry bit should be set and isn't.

The routine should accept initial + and initial blanks.