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NAME
getc, getw, fopen — buffered input

SYNOPSIS
mov $filename,r0
jsr r5,fopen; iobuf

fopen(filename, iobuf)
char *filename;
struct buf *iobuf;
jsr r5,getc; iobuf
(character in r0)
getc(iobuf)
struct buf *iobuf;
```

r5,getw; iobuf

## DESCRIPTION

(word in r0)
getw(iobuf)
struct buf \*iobuf;

These routines provide a buffered input facility. *Iobuf* is the address of a 518(10) byte buffer area whose contents are maintained by these routines. Its structure is

*Fopen* may be called initially to open the file. On return, the error bit (c-bit) is set if the open failed. If *fopen* is never called, *get* will read from the standard input file. From C, the value is negative if the open failed.

*Getc* returns the next byte from the file in r0. The error bit is set on end of file or a read error. From C, the character is returned as an integer, without sign extension; it is -1 on end-of-file or error.

Getw returns the next word in r0. Getc and g etw may be used alternately; there are no odd/even problems. Getw is may be called from C; -1 is returned on end-of-file or error, but of course is also a legitimate value.

*Iobuf* must be provided by the user; it must be on a word boundary.

To reuse the same buffer for another file, it is sufficient to close the original file and call *fopen* again.

Use the new "Standard I/O" instead.

## SEE ALSO

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open(II), read(II), getchar(III), putc(III)

A New Input-Output Package by D. M. Ritchie.
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## DIAGNOSTICS

c-bit set on EOF or error; from C, negative return indicates error or EOF. Moreover, *errno* is set by this routine just as it is for a system call (see *intro*(II)).