

**NAME**

readdir – directory input parser for gawk

**SYNOPSIS**

```
@load "readdir"
```

**DESCRIPTION**

The *readdir* extension adds an input parser for directories.

When this extension is in use, instead of skipping directories named on the command line (or with **getline**), they are read, with each entry returned as a record.

The record consists of three fields. The first two are the inode number and the filename, separated by a forward slash character. On systems where the directory entry contains the file type, the record has a third field which is a single letter indicating the type of the file: **f** for file, **d** for directory, **b** for a block device, **c** for a character device, **p** for a FIFO, **l** for a symbolic link, **s** for a socket.

On systems without the file type information, the extension falls back to calling *stat(2)*, in order to provide the information. Thus the third field should never be **u**.

By default, if a directory cannot be opened (due to permission problems, for example), *gawk* will exit. As with regular files, this situation can be handled using a **BEGINFILE** rule that checks **ERRNO** and prints an error or otherwise handles the problem.

**EXAMPLE**

```
@load "readdir"
...
BEGIN { FS = "/" }
{ print "file name is", $2 }
```

**SEE ALSO**

*GAWK: Effective AWK Programming*, *filefuncs(3am)*, *fnmatch(3am)*, *fork(3am)*, *inplace(3am)*, *ordchr(3am)*, *readfile(3am)*, *revoutput(3am)*, *rvarray(3am)*, *time(3am)*.

*opendir(3)*, *readdir(3)*, *stat(2)*.

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