NAME

fork, wait, waitpid - basic process management

SYNOPSIS

```
@load "fork"
pid = fork()
ret = waitpid(pid)
ret = wait();
```

DESCRIPTION

The *fork* extension adds three functions, as follows.

fork() This function creates a new process. The return value is the zero in the child and the process-id number of the child in the parent, or -1 upon error. In the latter case, **ERRNO** indicates the problem. In the child, **PROCINFO["pid"]** and **PROCINFO["ppid"]** are updated to reflect the correct values.

waitpid()

This function takes a numeric argument, which is the process-id to wait for. The return value is that of the *waitpid*(2) system call.

it() This function waits for the first child to die. The return value is that of the wait(2) system call.

BUGS

There is no corresponding exec() function.

The interfaces could be enhanced to provide more facilities, including pulling out the various bits of the return status.

EXAMPLE

```
@load "fork"
...
if ((pid = fork()) == 0)
    print "hello from the child"
else
    print "hello from the parent"
```

SEE ALSO

GAWK: Effective AWK Programming, filefuncs(3am), fnmatch(3am), inplace(3am), ordchr(3am), read-dir(3am), revoutput(3am), rwarray(3am), time(3am).

```
fork(2), wait(2), waitpid(2).
```

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