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Subject: Re: Sound in linux

Posted by [dolik.rce](#) on Mon, 22 Dec 2014 08:56:26 GMT

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rainbowsally wrote on Mon, 22 December 2014 08:01 But let's say you launch a shell with a command to.. let's say 'find' everything on your C drive and dump it into a text file.

Anything, just something that takes a long time would do.

If this shell is launched by way of a `system()` call from a GUI, will the GUI hang until 'find' is done?

From the man page of `system()`:

Quote:

The `system()` library function uses `fork(2)` to create a child process that executes the shell command specified in `command` using `execl(3)` as follows:

```
execl("/bin/sh", "sh", "-c", command, (char *) 0);
```

`system()` returns after the command has been completed.

So to answer your question, yes it blocks. But you can always call `fork()` and one of the `exec*` functions (there is about six of them). That in itself is not blocking, later you can check if the process is completed by calling `waitpid(pid_returned_from_fork, &return_code, NOHANG)`, which is also nonblocking operation.

Honza

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