x Dismiss

Join the Stack Overflow Community

Stack Overflow is a community of 7.3 million programmers, just like you, helping each other.

Join them; it only takes a minute:

Sign up

Exit Shell Script Based on Process Exit Code



I have a shell script that executes a number of commands. How do I make the shell script exit if any of the commands exit with a non-zero exit code?

bash shell



asked Sep 18 '08 at 6:03

Mark Roddy

12.2k 10 55 62

2 I answered assuming you're using bash, but if it's a very different shell can you specify in your post? — Martin W Sep 18 '08 at 6:11

9 Answers

After each command, the exit code can be found in the $\ \$ variable so you would have something like:

```
ls -al file.ext
rc=$?; if [[ $rc != 0 ]]; then exit $rc; fi
```

You need to be careful of piped commands since the \$? only gives you the return code of the last element in the pipe so, in the code:

```
ls -al file.ext | sed 's/^/xx: /"
```

will not return an error code if the file doesn't exist (since the sed part of the pipeline actually works, returning 0).

The bash shell actually provides an array which can assist in that case, that being pipestatus. This array has one element for each of the pipeline components, that you can access individually like \${pipestatus[0]}:

```
pax> false | true ; echo ${PIPESTATUS[0]}
1
```

Note that this is getting you the result of the false command, not the entire pipeline. You can also get the entire list to process as you see fit:

```
pax> false | true | false; echo ${PIPESTATUS[*]}
1 0 1
```

If you wanted to get the largest error code from a pipeline, you could use something like:

1 of 1 06/30/2017 04:59 PM