ADVANCED BASH

Thursday, 27 May 2021 4:29 PM

CO-PROCESSES

Using Coprocesses

 A coprocess is a background process where your shell gets file descriptors for the process's stdin and stdout.

Implemented with pipe

Using Coprocesses

We need a script that is a filter.

```
#!/bin/bash
while
  read line
do
  echo $line | tr "ABC" "abc"
done
```

Using Coprocesses

```
coproc ./mycoproc.sh
```

- echo BANANA >&"\${COPROC[1]}"
- cat <&"\${COPROC[0]}"

NAMING A COPROC

```
coproc my { ./mycoproc.sh; }
```

- echo BANANA >&"\${my[1]}"
- cat <&"\${my[0]}"

DEBUGGING SCRIPTS:

Debugging Scripts

- \$ bash prog
 Run prog; don't need execute permission
- \$ bash -x prog
 Echo commands after processing; can also do set -x or

set +x inside of script

\$ bash -n prog
Do not execute commands, check for syntax errors only

Debugging Scripts

set –u
 Reports usage of an unset variable

- Lots of echo statements
- tee cmd | tee log.file | ...