

Plan9

The Front Fell Off

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Tips & Tricks

RC key bindings

- `PgUp` / `PgDn` - scroll
- `Home` / `End` - go to top/bottom
- `DEL` - terminate program
- `C-f` - auto complete
- `C-a` / `C-e` - go to start/end of line
- `C-w` / `C-u` - erase word/line

Mouse

- `L+M` - cut
- `L+R` - paset

ACME

Tags

- `win` - rc shell

Manuals

`man <name> | page`

Search man pages:

lookman

Networking

```
man ipconfig
```

```
ip/ping ibm.com
```

Get IP/DNS settings

```
cat /net/ndb
```

Ping

(Del to exit)

```
ip/ping wp.pl
```

Listen with command

This will listen on TCP port 99 and run `cat` to process data (will echo stuff back).

```
aux/listen1 tcp!*!99 cat
```

FTP

See `man listen`.

```
aux/listen tcp21
```

Logs

See for listen log:

```
cat /sys/log/listen
```

Processes

```
ps -a
```

Kill

```
Kill <match>
```

Manually:

```
chown 666 /proc/ID/ctl  
echo kill > /proc/ID/ctl
```

Namespace

```
ns
```

List file descriptors

```
ls /fd
```

List TCP connections

```
cat /net/tcp/*/^(local remote status)
```

Drivers

```
cat /dev/drivers
```

Managing hjfs

Open system console (to avoid spam on the screen):

```
cat /dev/kprint
```

Connect (or use echo instead) to hjfs daemon:

```
con -C /srv/hjfs.cmd
```

CTRL+\+enter gives `>>` prompt; type `q` to exit `con`.

Commands (see `man hjfs`):

- `df` - disk usage
- `newuser <username>` - add user to FS
- `newuser <groupname> +<username>` - add user to a group (user?)
- `sync`

List users:

```
cat /adm/users
```

Logs

Console log:

```
cat /dev/kprint
```

Log files:

```
/sys/log/
```

Castor9 gemini

- <https://fedi.9til.de/@julienxx/105361066071945190>

Castor9 browser is also available on <http://shithub.us> or `9fs 9til.de`

- `#gemini #plan9`

Docs

- <https://9p.io/sys/doc/names.pdf>

Stream

- <https://twitch.tv/sdfpubnix> (live)
- <https://toobnix.org/>
- <https://www.worldtimebuddy.com/pst-to-utc-converter>

Challenges

- <https://9p.sdf.org/>
- <https://9p.sdf.org/challenges/index.html>

HTML/Gemini

“ You are correct, you create the `$home/html` directory then create your `index.html` and/or `index.gem` files there. You can view your user site using the respective:

- <https://9p.sdf.org/who/antics/index.html>
- <gemini://9p.sdf.org/who/antics/index.gem>

urls.

```
curl https://9p.sdf.org/who/index.html -v --insecure
```

```
curl http://9p.sdf.org/who/hxd/index.html
```

They need `/usr/web/who/hxd` created (mounted?).

See `/bin/mkhomepg`.

Config files

- `bin/rc/riostart` - script for rio; use `wloc` to see script for current windows

- `/n/9fat/plan9.ini` - boot setting; use `9fs 9fat` to mount first
- `lib/profile` - user specific based boot stuff; starts stuff depending on role (terminal, cpu, cons)
- `/bin/termrc` - boot stuff

Listen & services

Services

- https://man.cat-v.org/plan_9/8/listen

Start all services matching `ls /bin/service/tcp*`

```
aux/listen
```

Custom listen

`aux/listen1` will listen on proto, ip and port and execute command for each incoming connection and forward stdin/out to the connection.

Normally it runs as user `none`.

Echo on TCP 888

```
aux/listen1 tcp!*!888 cat
```

Collect data sent

```
aux/listen1 -t tcp!*!888 tee -a data
```

Send data out

```
aux/listen1 tcp!*!888 echo foobar
```

CPU server (-t to use current user)

- https://plan9.io/wiki/plan9/Drawterm_to_your_terminal/index.html

```
aux/listen1 -t tcp!*!17010 /bin/cpu -R &
```

Auth & CPU servers

Create user on the file system

Keyfs user database

- <https://plan9.io/magic/man2html/4/keyfs>

This creates `/adm/keys` encrypted (DES?) user database file and mounts its content under `/mnt/keys`.

```
auth/keyfs -p # (in rc terminal, no acme)
```

Now we can create user in the encrypted `/adm/keys` file:

```
auth/changeuser hxd
```

This will write new `/adm/keys` file and also show the user in `/mnt/keys` as parsed out of the file.