



Utrecht University

*ii:*

# *Command line utilities for iRODS*

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## ii ls: Listing data objects and collections

- Layout / display tweaks
- Sort by name, extension, size, date
- Output as CSV, JSON, YAML
- Wildcard support

```
/testZone/home/rods:  
rods          0 demoResc      13312 2021-06-09.20:45 & bar.dat  
rods          1 top;group1;ufs 13312 2021-06-09.20:46 & bar.dat  
rods          0 demoResc     51235600 2021-06-09.20:45 & baz.dat  
rods          0 demoResc     9222408 2021-06-09.20:45 & foo.dat  
C- /testZone/home/rods/dir1  
C- /testZone/home/rods/dir2
```

```
(venv) [vagrant@provider ~]$ ii ls -l --sort size  
/testZone/home/rods:  
  
TYPE  OWNER  R#  RESOURCE  R?  SIZE  MDATE  NAME  
C     rods   -    -          -    -    2021-06-09 20:47  dir1  
C     rods   -    -          -    -    2021-06-09 20:47  dir2  
D     rods   0    demoResc  OK   13.0K 2021-06-09 20:45  bar.dat  
D     rods   1    ufs       OK   13.0K 2021-06-09 20:46  bar.dat  
D     rods   0    demoResc  OK   8.8M  2021-06-09 20:45  foo.dat  
D     rods   0    demoResc  OK   48.9M 2021-06-09 20:45  baz.dat
```



## ii find: selecting and filtering data objects

- Filter data objects by:
  - Data object name
  - Owner
  - Resource
  - Size (min/max/exact)

```
(venv) [vagrant@provider ~]$ ii find . --dname "*.dat" --minsize 5m --maxsize "20m"  
--resc demoResc --print0 | xargs -0 -n 1 -I "{}" irepl -S demoResc -R top "{}" -v  
foo.dat 8.795 MB | 0.027 sec | 3 thr | 321.109 MB/s
```

# iswitch: fast switching between iRODS environments

Fast switching between zones or accounts for iCommands

```
[sietse@server:~ production] $ iswitch list
production*
test
[sietse@server:~ production] $ ils
/productionZone/home:
  C- /productionZone/home/research-sietse
[sietse@server:~ production] $ iswitch to test
Current config: test
[sietse@server:~ test] $ ils
/testZone/home:
  C- /testZone/home/sietse
  C- /testZone/home/research-test-sietse
[sietse@server:~ test] $
```



## Feedback and contributions welcome

<https://github.com/utrechtuniversity/ii>

<https://github.com/utrechtuniversity/iswitch>

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