

UniIO Performance Scripts

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install

```
$ git clone https://github.com/fred-chen/uo_scripts.git
$ tree uio_scripts/
uio_scripts/
├── client
│   └── plotfio.sh
└── server
    ├── collect_cpu.sh
    ├── counterana.py
    ├── init_backend.sh
    ├── init_cluster.sh
    └── renice_iothreads.sh
```

client scripts

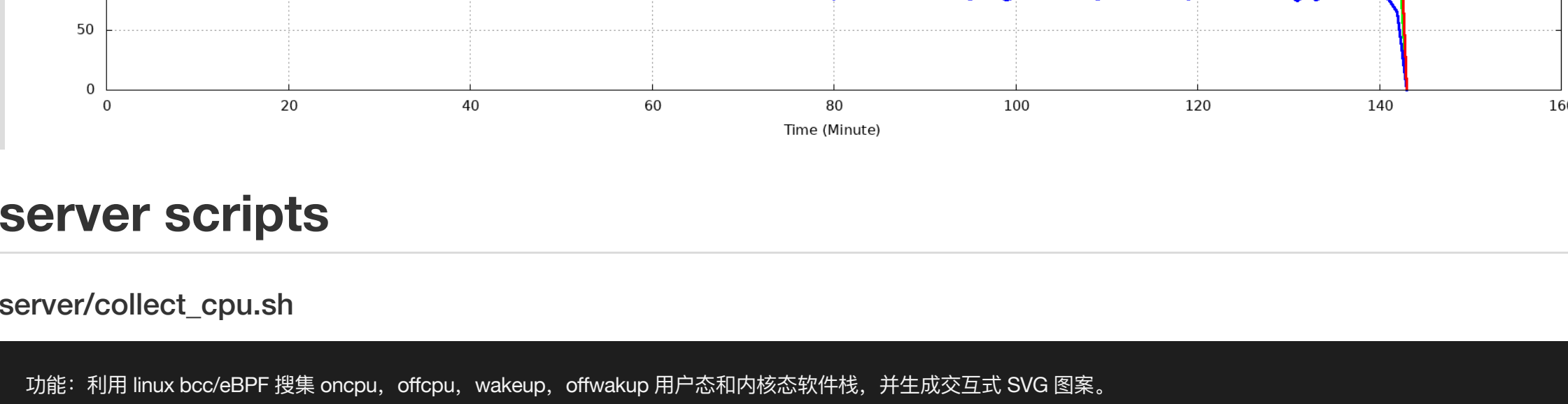
client/plotfio.sh

功能：对多个 fio 日志文件中的数据进行分类汇总（fio给每个job产生一个日志文件），按时间生成数据走势图。支持的图形类型为：IOPS, SLAT, CLAT, LAT。

用法：
client/plotfio.sh -h
usage: plotfio.sh <logname> [-t iops|clat|slat|lat] [-title chart_title] [-k] [-keep]

options:
-t type of plots, can be one of: iops, clat, slat, lat.
-k keep temp files.

examples:
plotfio.sh log/82nw/iops -t iops # plot iops chart for logs that the path match 'log/82nw/iops'



server scripts

server/collect_cpu.sh

功能：利用 linux bcc/eBPF 搜集 oncpu, offcpu, wakeup, offwakeup 用户态和内核态软件栈，并生成交互式 SVG 图案。

运行条件：
kernel version >=4.8
eBPF enabled with kernel
bcc installed
FlameGraph installed and located in ../FlameGraph

用法：
server/collect_cpu.sh -h
usage: collect_cpu.sh [process_name] [-w prefix] [-t time] [-g oncpu|offcpu|wakeup|offwakeup] [-x exclude_stack] [-k]

options:
-k keep temp files.

examples:
collect_cpu.sh # gather all types of cpu data for 60 seconds and generate flame graphs. prefix 'this'

collect_cpu.sh cio_array # gather all types of cpu data of process 'cio_array' for 60 seconds
and generate flame graphs. prefix 'this'.

collect_cpu.sh -w 82nw -t 30 -g oncpu # gather oncpu data for 30 seconds
and generate flame graphs. prefix '82nw'

