

COMP 2710: Project 2

auDiskTool - A Tool for Monitoring Disk Devices

What's new? The command of display report has been changed:
`print report` - open and display the report file

Sample Usage

1. Help

```
./audisktool_xzq0001
auDiskTool, version 1.0.0. Type 'help' to find more about commands.

>help
run - run the monitoring tool.
set interval [value] - set sampling period to [value]
set count [value] - set the number of records to [value]
set report [name] - set report file name to [name]
set blk_read [0|1] - set print_blk_read to 0 or 1
set blk_read/s [0|1] - set print_blk_read/s to 0 or 1
set kb_read/s [0|1] - set print_kb_read/s to 0 or 1
set blk_write [0|1] - set print_blk_write to 0 or 1
set blk_write/s [0|1] - set print_blk_write/s to 0 or 1
set kb_write [0|1] - set print_kb_write to 0 or 1
print conf - display all the parameters
print report - open and display the report file
save - the configuration file audisktool.conf is updated
display - exit - exit the tool.

>
```

2. Run the tool

```
./audisktool_xzq0001
auDiskTool, version 1.0.0. Type 'help' to find more about commands.

>run
Monitoring time = 5 Seconds, Number of records = 10,
print_blk_read = 1, print_blk_read/s = 1, print_kb_read/s = 1,
print_blk_write = 0, print_blk_write/s = 0, print_kb_write/s = 0,
report file name = 'report.adt'
Please wait ...

A file "report.adt" is updated.

>
```

3. Change report file name

```
./audisktool_xzq0001
auDiskTool, version 1.0.0. Type 'help' to find more about commands.

>set report xzq0001.adt
The report file name is changed from 'report.adt' to 'xzq0001.adt'.
You can now type 'run' to generate new records to be saved in
```

```
'xzq0001.adt'.  
Note: 'report.adt' will not be deleted by audisktool.
```

>

4. Display records in the report file

4.1 no record is found

```
./audisktool_xzq0001  
auDiskTool, version 1.0.0. Type 'help' to find more about commands.
```

```
>print report  
No record found in 'report.adt'
```

>

4.2 Records are found

```
./audisktool_xzq0001  
auDiskTool, version 1.0.0. Type 'help' to find more about commands.
```

```
>print report  
2 records found in 'report.adt'  
blk_read blk_read/s kb_read/s blk_write blk_write/s kb_write/s  
10      1.13      2.26      N/A      N/A      N/A  
55      5.4       10.8     N/A      N/A      N/A
```

>

5. Change count and interval

```
./audisktool_xzq0001  
auDiskTool, version 1.0.0. Type 'help' to find more about commands.
```

```
>set count 15  
The number of records generated in each run has been changed to 15.
```

```
>set interval 3  
The sampling interval has been changed to 3 seconds.
```

>

6. Change print_blk_read and other similar parameters

```
./audisktool_xzq0001  
auDiskTool, version 1.0.0. Type 'help' to find more about commands.
```

```
>set blk_read 0  
Print_blk_read has been changed to 0.
```

```
>set blk_write 0  
Print_blk_write was 0; the parameter remains unchanged to 0.
```

>

7. Display all the parameters.

```
./audisktool_xzq0001  
auDiskTool, version 1.0.0. Type 'help' to find more about commands.
```

```
>print conf
Monitoring time = 5 Seconds, Number of records = 10,
print_blk_read = 1, print_blk_read/s = 1, print_kb_read/s = 1,
print_blk_write = 0, print_blk_write/s = 0, print_kb_write/s = 0,
report file name = 'report.adt'
```

```
>
```

8. Save the configuration file

8.1 no need to save

```
$/audisktool_xzq0001
auDiskTool, version 1.0.0. Type 'help' to find more about commands.
```

```
>save
```

```
Audisktool.conf has not been updated. There is no need to save the
file.
```

8.2 change can save the configuration file

```
$/audisktool_xzq0001
auDiskTool, version 1.0.0. Type 'help' to find more about commands.
```

```
>set blk_read 0
```

```
Print_blk_read has been changed to 0.
```

```
>save
```

```
file audisktool.conf has been updated.
```

```
>
```