# This is the suggested sequence to read ivy presentations / watch ivy videos

The powerpoint presentations, their .pdf equivalents, and the sample output are found in two places.

* On github.com along with the source, at <https://github.com/Hitachi-Data-Systems/ivy>
* On the HDS community at <https://community.hds.com/groups/ivy>

Video playlist - 14 videos:

<https://www.youtube.com/watch?v=--h_tdnRkkE&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8>

# 1) Introduction to ivy

* .pptx, .pdf
* [Introduction to ivy video](https://www.youtube.com/watch?v=--h_tdnRkkE&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=1)
* Start here

# 2) Testing in minimum time with ivy

* .pptx, .pdf
* [Testing in minimum time with ivy video](https://www.youtube.com/watch?v=2rrwpY4ySwQ&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=2)
* Specify a plus/minus accuracy, and ivy will run as long as necessary to measure to that accuracy, depending on the stability of the workload

# 3) Installing ivy

* .pptx, .pdf
* [Installing ivy video](https://www.youtube.com/watch?v=0AqzXsEbCJM&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=3)

# 4) Introduction to ivy output csv files

* .pptx, .pdf, video
* [Introduction to ivy output csv files video](https://www.youtube.com/watch?v=WNVJccfrhrg&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=4)
* Gives you an orientation explaining the ivy output csv file structure
* Introduces the ivy csv file loader spreadsheet tool.

# 5) demo0\_DF

* sample output csv file set (no .pptx, no .pdf)
* [demo0 DF - LUN discovery video](https://www.youtube.com/watch?v=75Z3hwDI42A&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=5)
* Shows LUN discovery for Hitachi modular subsystems
* The same functionality for the "DF" demos would be available for a non-Hitachi subsystem.

# 6) demo0\_RAID

* sample output csv file set (no .pptx, no .pdf)
* [demo0\_RAID - video](https://www.youtube.com/watch?v=ZQDe6nHBPV8&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=6)
* Shows the additional configuration information that is discovered with the command device connector

# 7) demo1\_fixed\_DF

* sample output csv file set (no .pptx, no .pdf)
* [demo1\_fixed\_DF video](https://www.youtube.com/watch?v=l-Lpj4h-9iI&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=7)
* Runs a test for a pre-determined duration at a pre-determined IOPS setting

# 8) demo1\_fixed\_RAID

* sample output csv file set (no .pptx, no .pdf)
* [demo1\_fixed\_RAID video](https://www.youtube.com/watch?v=Gk7DDY0JI04&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=8)
* Shows the additional performance information you get with a command device connector

# 9) demo2\_create\_rollup

* sample output csv file sets for both DF and RAID (no .pptx, no .pdf)
* [demo2\_create\_rollup video](https://www.youtube.com/watch?v=TOQzbdRm8do&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=9)
* Introduces the [CreateRollup] statement, and shows how to produce sliced and diced output csv files

# 10) demo3\_layered\_workloads

* sample output csv file sets for both DF and RAID (no .pptx, no .pdf)
* [demo3\_layered\_workloads video](https://www.youtube.com/watch?v=gOIYZ81m-Bo&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=10)
* Introduces the [CreateRollup] statement, and shows how to produce sliced and diced output csv files

# 11) demo5\_read\_vs\_write

* sample output csv file sets for both DF and RAID (no .pptx, no .pdf)
* [demo5\_read\_vs\_write video](https://www.youtube.com/watch?v=hzF2MKhhd0k&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=11)
* Introduces "measure=on" which tests as long as necessary to reach a target plus/minus accuracy

# 12) [Go] statement 1 of 3

* .pptx, .pdf
* [[Go] statement 1 of 3 video](https://www.youtube.com/watch?v=3bAn5pFKS4I&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=12)
* Basic [Go] statement to test for a fixed amount of time

# 13) [Go] statement 2 of 3 - the focus rollup

* .pptx, .pdf
* [[Go] statement 2 of 3 video - the focus rollup](https://www.youtube.com/watch?v=_nT25ieZWzI&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=13)
* The focus rollup is used by both the "measure=on" feature and the PID loop controller feature

# 14) [Go] statement 3 of 3 - measure=on and the PID loop feature

* .pptx, .pdf
* [[Go] statement 3 of 3 video - measure=on and the PID loop feature](https://www.youtube.com/watch?v=QZ6aqLtKPEg&list=PLHmnN_gEh0ZzK8KqOXfWqdVsEjuaqjpu8&index=14)
* How to code the "seen enough and stop" and the PID loop controller features

# 15) dedupe & compression support

* .ppt, .pdf only

# reference) ivy Programmer's Reference

.pptx, .pdf only