

DMP Implementation Status of IPP

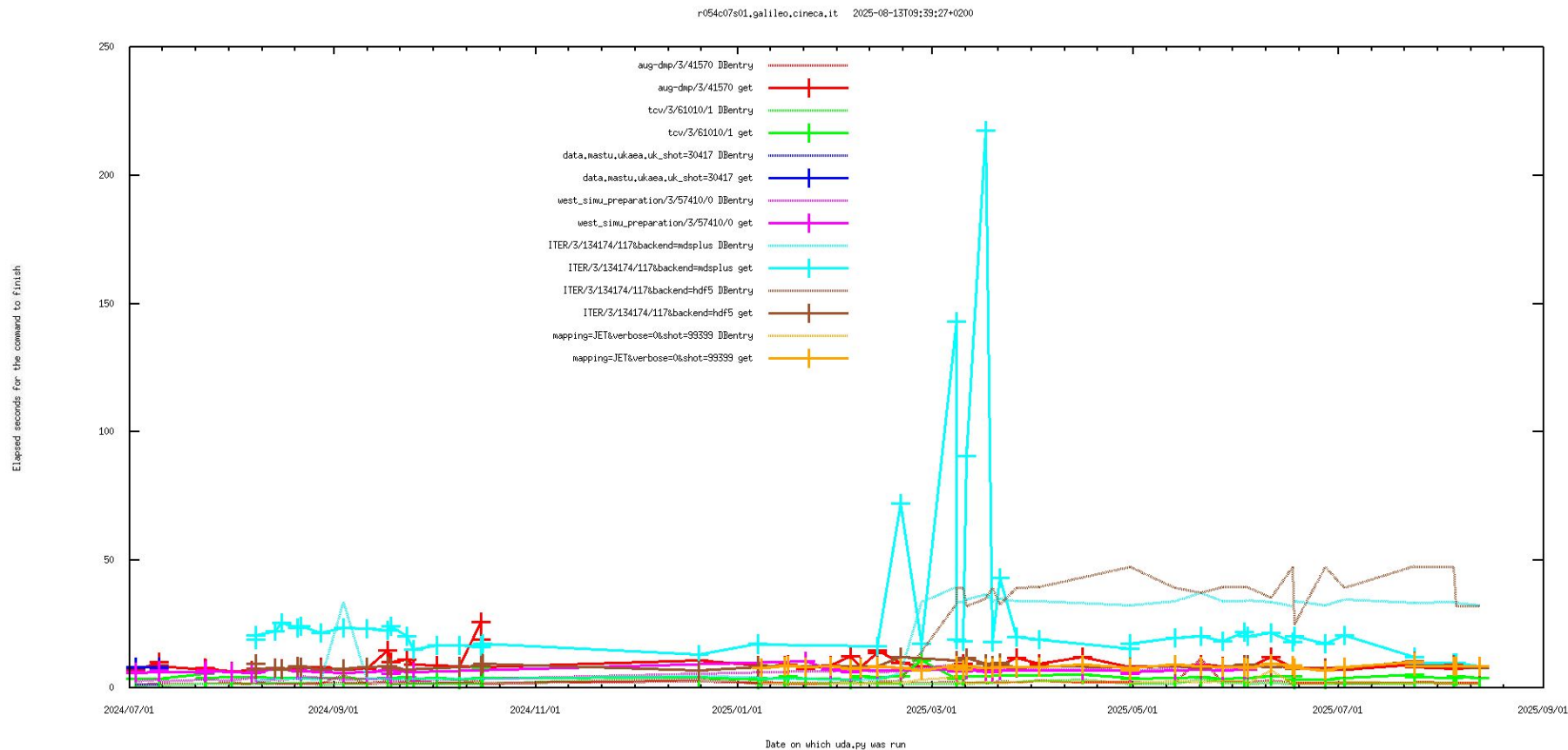
2025-08-13

IMAS versions updated on the TOK and Citrix systems

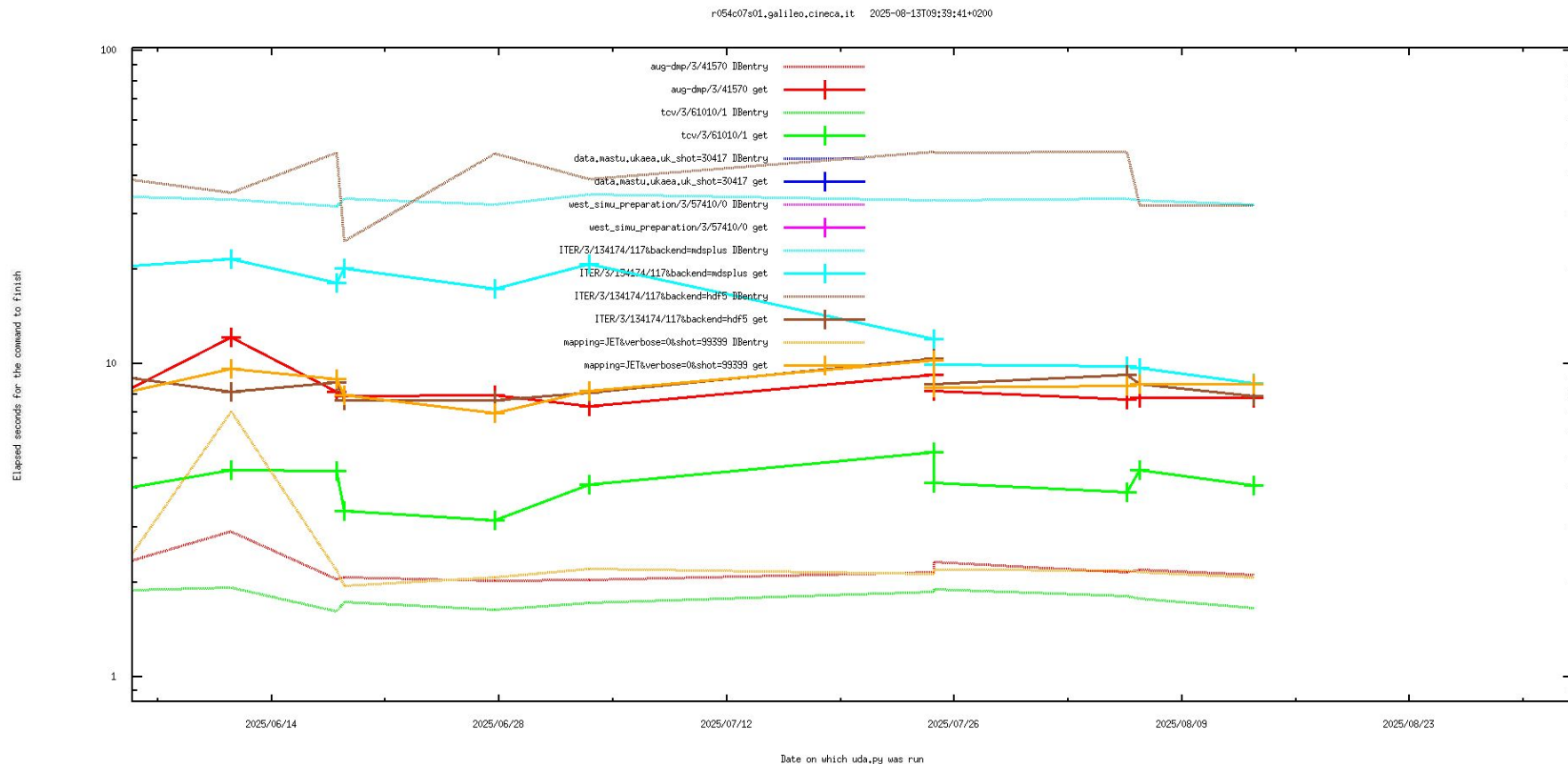
DD	AL	TOK cluster	Citrix system
3.38.1	4.11.4		2023-06-08
3.39.0	4.11.5	2023-07-26	2023-07-31
3.39.0	5.0.0	2023-10-10	
3.41.0	4.11.10	2024-04-17	
3.41.0	2024.07-foss-2023b		2024-08-11
3.42.0	2024.08-foss-2023b		2024-08-13
3.42.0	2024.08.1-foss-2023b	2024-08-23	2024-08-22
3.42.0	2024.08.1-intel-2023b	2024-08-23	2024-08-22
3.42.0	4.11.10		2024-10-09
3.42.0	2024.09-foss-2023b	2024-10-21	2024-10-21
3.42.0	2024.09-intel-2023b	2024-10-21	2024-10-21
4.0.0	2024.12-foss-2023b	2025-01-22	2025-01-22
4.0.0	2024.12-intel-2023b	2025-01-22	2025-01-22

- Entries in red have a problem after the cluster upgrade
 - Underlying python changed, together with numpy
 - Remove?

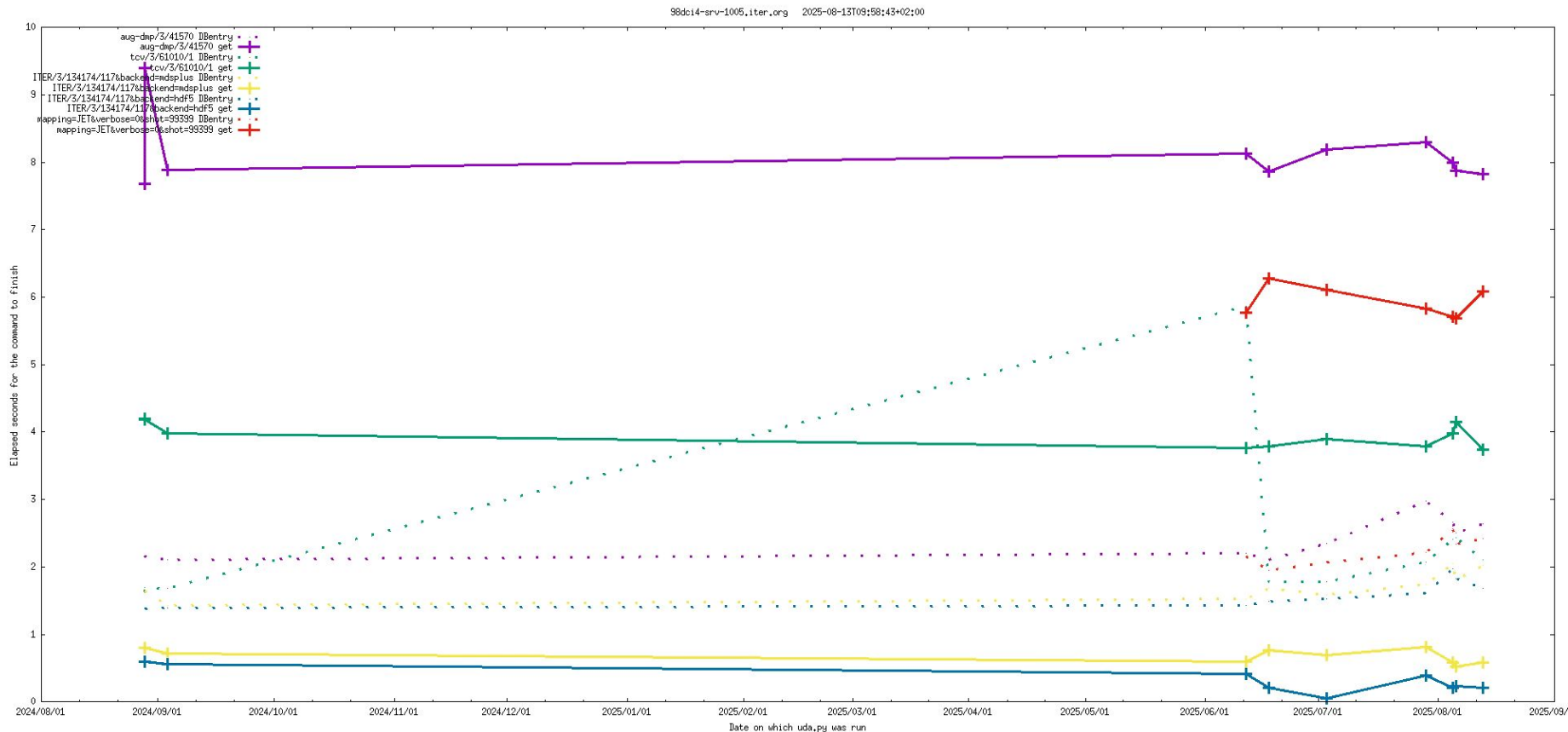
Data access times: run on Gateway



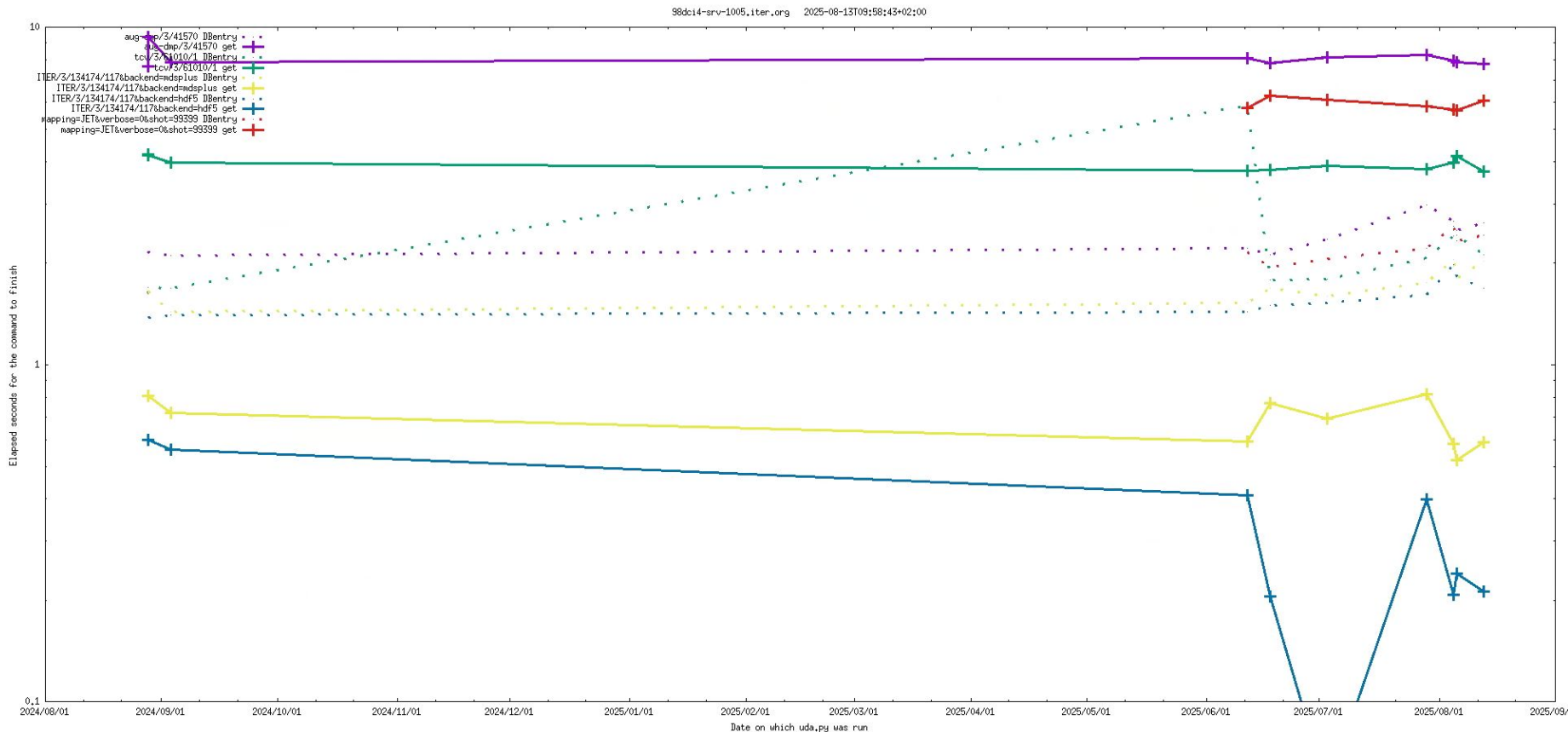
Data access times: run on Gateway



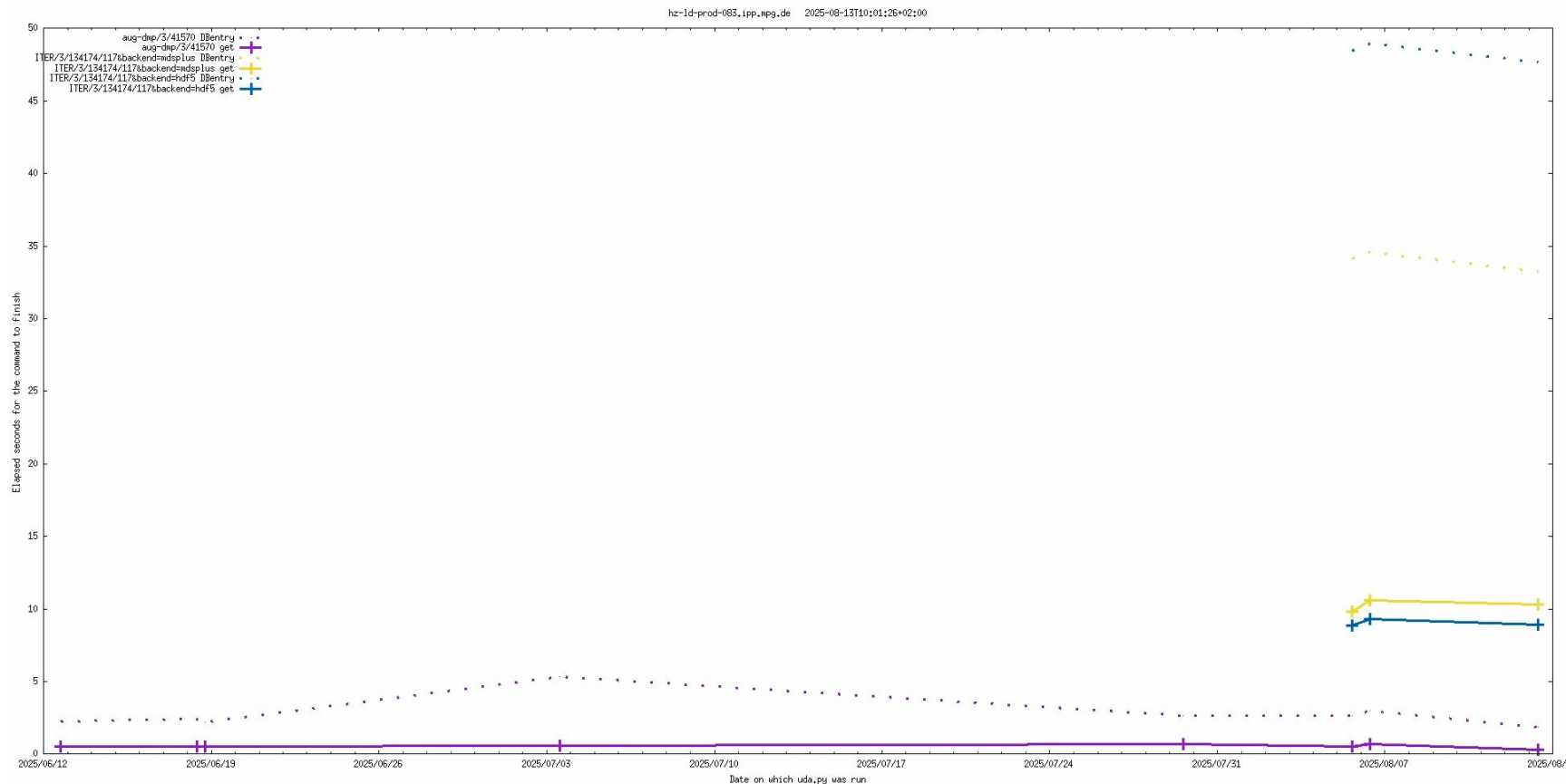
Data access times: run at ITER



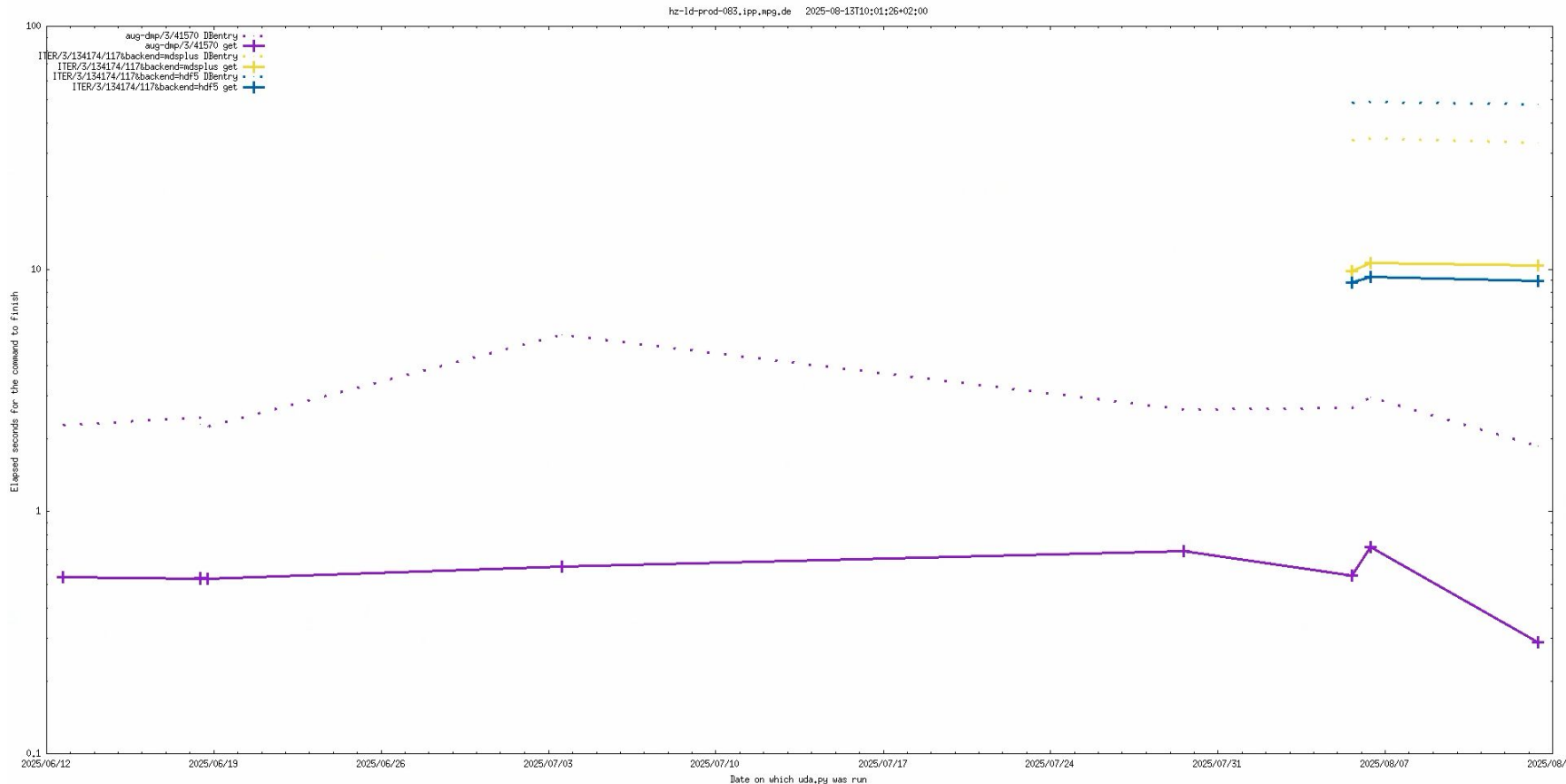
Data access times: run at ITER



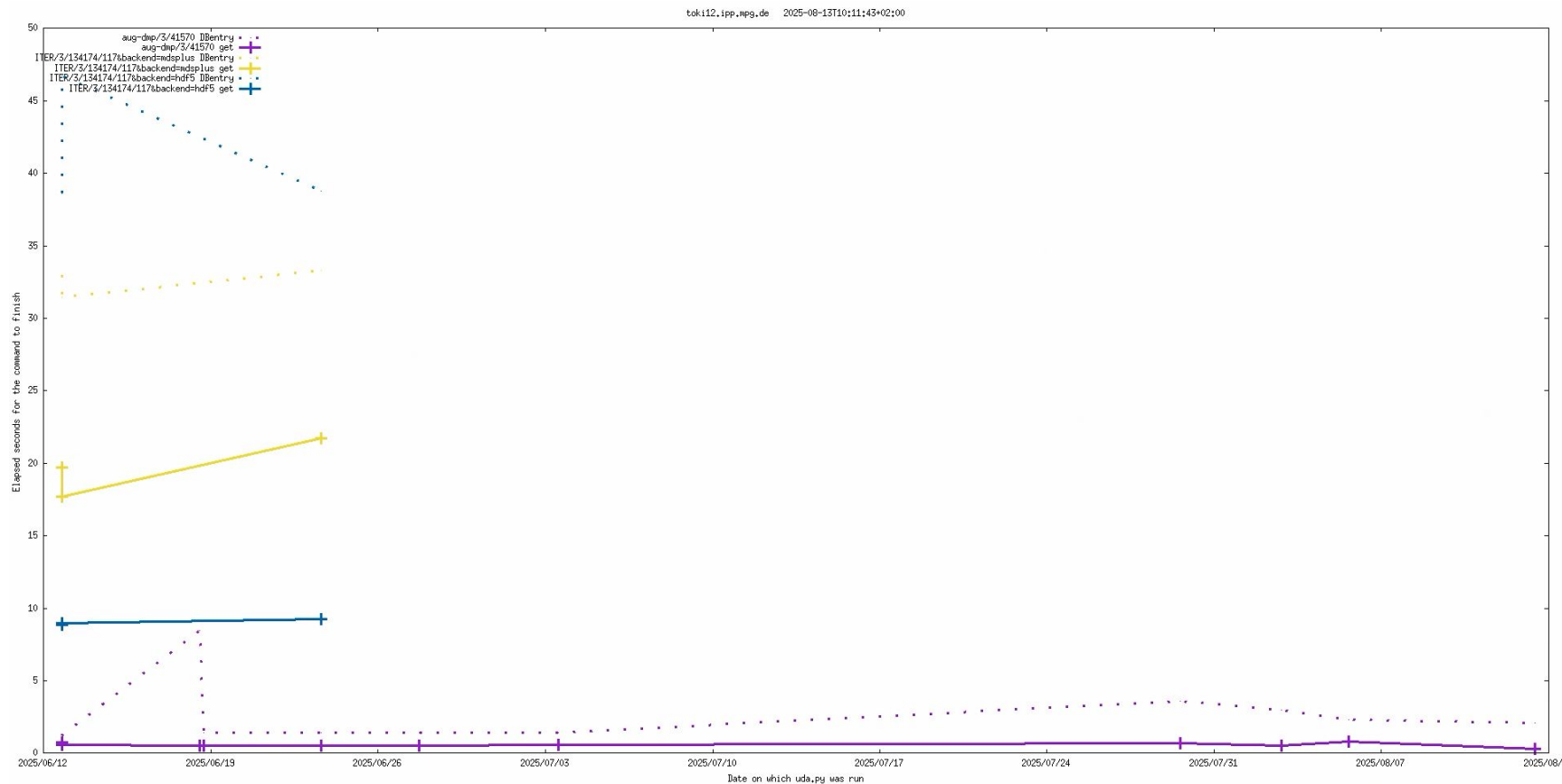
Data access times: run at IPP (horizon)



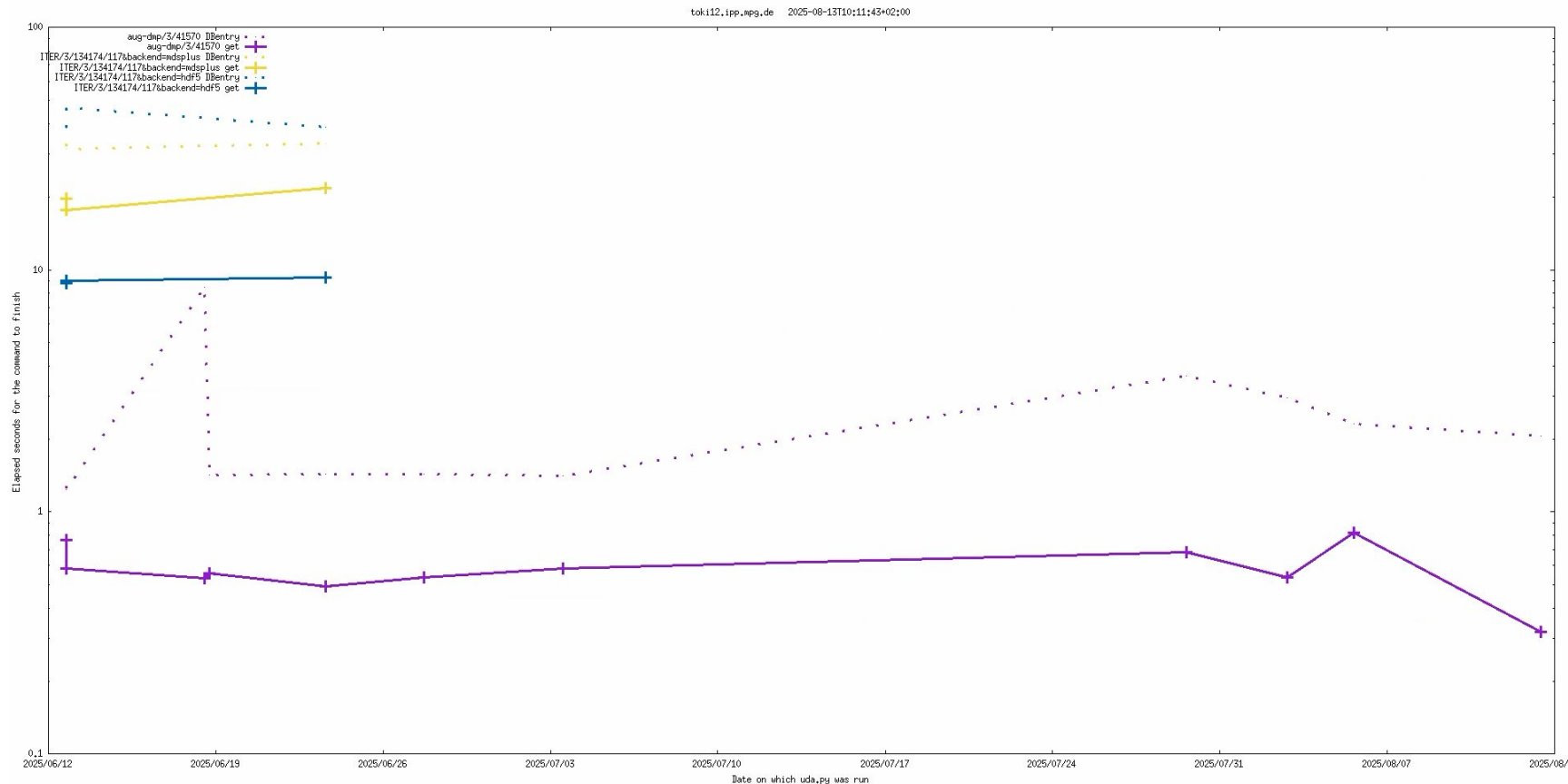
Data access times: run at IPP (horizon)



Data access times: run at IPP (TOK cluster)



Data access times: run at IPP (TOK cluster)



Trying to compile uda

```
cmake -Bbuild -H. -DTARGET_TYPE:STRING=OTHER -DBUILD_SHARED_LIBS=true
```

```
make -C build
```

```
[ 3%] Building CXX object source/structures/CMakeFiles/structures-server-objects.dir/struct.cpp.o
```

```
/u/dpc/GIT/uda/source/structures/struct.cpp: In function 'char** getNTreeStructureNames(LOGMALLOCLIST*, NTREE*)':
```

```
/u/dpc/GIT/uda/source/structures/struct.cpp:3922:25: error: pointer 'old' used after 'void* realloc(void*, size_t)' [-Werror=use-after-free]
```

```
3922 |         changeMalloc(logmalloclist, old, (void*)names, (count + childcount), sizeof(char*), "char *");
```

```
|         ~~~~~^~~~~~
```

```
/u/dpc/GIT/uda/source/structures/struct.cpp:3921:36: note: call to 'void* realloc(void*, size_t)' here
```

```
3921 |         names = (char**)realloc((void*)names, (count + childcount) * sizeof(char*));
```

```
|         ~~~~~^~~~~~
```

```
/u/dpc/GIT/uda/source/structures/struct.cpp: In function 'char** getNTreeStructureTypes(LOGMALLOCLIST*, NTREE*)':
```

```
/u/dpc/GIT/uda/source/structures/struct.cpp:3955:25: error: pointer 'old' used after 'void* realloc(void*, size_t)' [-Werror=use-after-free]
```

```
...
```

```
cc1plus: all warnings being treated as errors
```

```
gmake[2]: *** [source/structures/CMakeFiles/structures-server-objects.dir/build.make:90:
```

```
source/structures/CMakeFiles/structures-server-objects.dir/struct.cpp.o] Error 1
```

```
gmake[2]: Leaving directory '/toks/scratch/dpc/GIT/uda/build'
```

```
gmake[1]: *** [CMakeFiles/Makefile2:712: source/structures/CMakeFiles/structures-server-objects.dir/all] Error 2
```

```
gmake[1]: Leaving directory '/toks/scratch/dpc/GIT/uda/build'
```

```
make: *** [Makefile:156: all] Error 2
```

```
make: Leaving directory '/toks/scratch/dpc/GIT/uda/build'
```

Trying to compile uda

```
[ 3%] Building CXX object source/structures/CMakeFiles/structures-server-objects.dir/struct.cpp.o
/u/dpc/GIT/uda/source/structures/struct.cpp: In function 'char** getNTreeStructureNames(LOGMALLOCLIST*, NTREE*)':
/u/dpc/GIT/uda/source/structures/struct.cpp:3922:25: error: pointer 'old' used after 'void* realloc(void*, size_t)' [-Werror=use-after-free]
3922 |         changeMalloc(logmalloclist, old, (void*)names, (count + childcount), sizeof(char*), "char "");
      |
      | ~~~~~
/u/dpc/GIT/uda/source/structures/struct.cpp:3921:36: note: call to 'void* realloc(void*, size_t)' here
3921 |         names = (char**)realloc((void*)names, (count + childcount) * sizeof(char*));
      |
      | ~~~~~
/u/dpc/GIT/uda/source/structures/struct.cpp: In function 'char** getNTreeStructureTypes(LOGMALLOCLIST*, NTREE*)':
/u/dpc/GIT/uda/source/structures/struct.cpp:3955:25: error: pointer 'old' used after 'void* realloc(void*, size_t)' [-Werror=use-after-free]
3955 |         changeMalloc(logmalloclist, old, (void*)names, (count + childcount), sizeof(char*), "char "");
      |
      | ~~~~~
/u/dpc/GIT/uda/source/structures/struct.cpp:3954:36: note: call to 'void* realloc(void*, size_t)' here
3954 |         names = (char**)realloc((void*)names, (count + childcount) * sizeof(char*));
      |
      | ~~~~~
/u/dpc/GIT/uda/source/structures/struct.cpp: In function 'char** getNTreeStructureComponentNames(LOGMALLOCLIST*, NTREE*)':
/u/dpc/GIT/uda/source/structures/struct.cpp:4035:25: error: pointer 'old' used after 'void* realloc(void*, size_t)' [-Werror=use-after-free]
4035 |         changeMalloc(logmalloclist, old, (void*)names, (count + childcount), sizeof(char*), "char "");
      |
      | ~~~~~
/u/dpc/GIT/uda/source/structures/struct.cpp:4034:36: note: call to 'void* realloc(void*, size_t)' here
4034 |         names = (char**)realloc((void*)names, (count + childcount) * sizeof(char*));
      |
      | ~~~~~
/u/dpc/GIT/uda/source/structures/struct.cpp: In function 'char** getNTreeStructureComponentTypes(LOGMALLOCLIST*, NTREE*)':
/u/dpc/GIT/uda/source/structures/struct.cpp:4066:25: error: pointer 'old' used after 'void* realloc(void*, size_t)' [-Werror=use-after-free]
4066 |         changeMalloc(logmalloclist, old, (void*)names, (count + childcount), sizeof(char*), "char "");
      |
      | ~~~~~
/u/dpc/GIT/uda/source/structures/struct.cpp:4065:36: note: call to 'void* realloc(void*, size_t)' here
4065 |         names = (char**)realloc((void*)names, (count + childcount) * sizeof(char*));
      |
      | ~~~~~
/u/dpc/GIT/uda/source/structures/struct.cpp: In function 'char** getNTreeStructureComponentDescriptions(LOGMALLOCLIST*, NTREE*)':
/u/dpc/GIT/uda/source/structures/struct.cpp:4097:25: error: pointer 'old' used after 'void* realloc(void*, size_t)' [-Werror=use-after-free]
4097 |         changeMalloc(logmalloclist, old, (void*)names, (count + childcount), sizeof(char*), "char "");
      |
      | ~~~~~
/u/dpc/GIT/uda/source/structures/struct.cpp:4096:36: note: call to 'void* realloc(void*, size_t)' here
4096 |         names = (char**)realloc((void*)names, (count + childcount) * sizeof(char*));
      |
      | ~~~~~
cc1plus: all warnings being treated as errors
gmake[2]: *** [source/structures/CMakeFiles/structures-server-objects.dir/build.make:90: source/structures/CMakeFiles/structures-server-objects.dir/struct.cpp.o] Error 1
gmake[2]: Leaving directory '/toks/scratch/dpc/GIT/uda/build'
gmake[1]: *** [CMakeFiles/Makefile2:712: source/structures/CMakeFiles/structures-server-objects.dir/all] Error 2
gmake[1]: Leaving directory '/toks/scratch/dpc/GIT/uda/build'
make: *** [Makefile:156: all] Error 2
make: Leaving directory '/toks/scratch/dpc/GIT/uda/build'
```