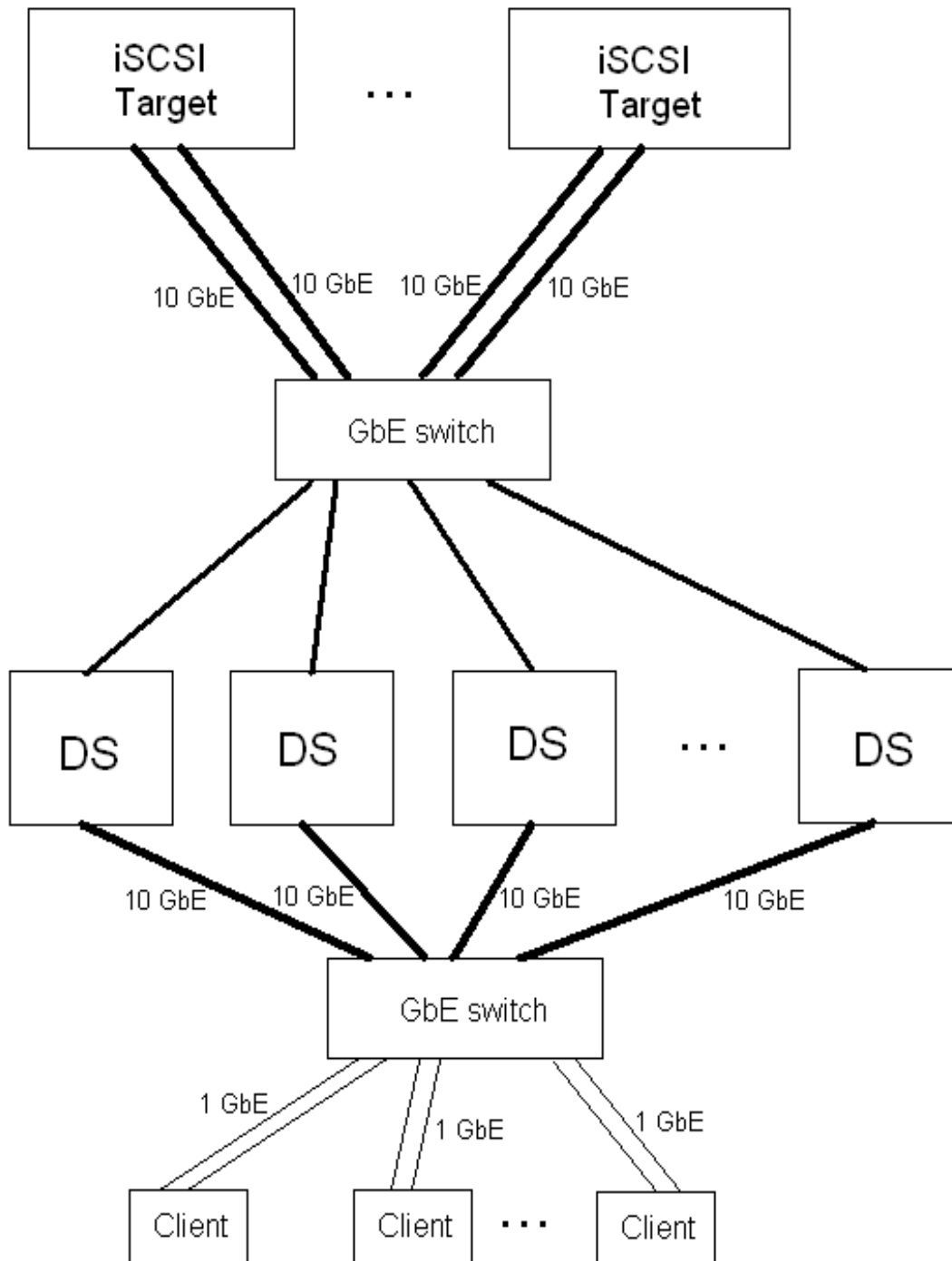


Notes for the Performance tests - tools and benchmarks

Don Capps was in the call and these are his notes:

(I also include the diagram that Peter Honeyman draw on the whiteboard to which Don's note refers to.)



pNFS Performance Testbed Diagram

On the subject of shared file access in Iozone... I (Don Capps) have added the following to the to-do list for future Iozone development.

* Shared file access in throughput mode with clients that are accessing by region, or by interleave.

End to End (thread decomposed zone access):

Client1 | Client2 | Client3

or

Interleaved: (shared array with row/column thread access)

Client1 Client2 Client3 | Client1 Client2 Client3

Either of these will very likely have different impacts on the vendor's systems, as the allocation policies of the filesystems will likely interact with the choice of interleave and access methodologies.

With these additions we all agreed that the IOzone is and will remain the performance benchmark of choice for pNFS which is optimized mostly for sequential read and write workloads.

We (Tom Haynes and friends) also discussed the possibility to create a new/different tool than cthon which is old enough to be used for pNFS tests, perhaps we will call it BATHon test tool which will be open source. We can include the modified/enhanced IOzone as the base for the new BATHon and gradually replace the cthon with BATHon and extend it to include new functionality and CB and lock tests.