8 GFC

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FCIA Speed Forum

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Sun microsystems
We make the net work.

Agenda

- A brief discussion of Sun requirements for 8GFC.

Disclaimer

This is not the official company roadmap.

This information is based on internal discussions.

Time : 10 minutes

Back End Fabric

- 8GFC backplane, trace length 24".

- 8GFC copper, intra-enclosure cable 0.5 – 1m
  (0.5 – 1 m is good, we might need up to 2m.)

- 8GFC optical for EMI?
  (We do not need optical on the backplane at this point.
    It might be a useful solution for intra-enclosure
    connections >2m.)

Front End Fabric

- 8GFC SFP, backward compatible to 2, 4 GFC

  (Compatibility with 1 and 10GFC not necessarily needed.)

- XFP? because of power dissipation? – better to stick to SFPs.

  (SFP is the correct solution.)

- 8GFC optical ports, switches.

  (Infrastructure support is important to make 8GFC interesting.)

Connection

- Optical cables: 0 – 15 m for racks.

    0 – 100m for datacenters.

    (These lengths do not need to change.)

Across the platform

- Support 2, 4, 8 GFC.

  (Front end support for differing speeds is a
   requirement.
   Back end support for differing speeds would
   only be a nice to have.)

Speed Roadmap

FC		2003	2004	2005	2006	2007	2008	2009	2010
1GFC	BE		1GFC						
	FE								
2GFC	BE								
	FE		2GFC						
4GFC	BE								
	FE				4GFC				
8GFC	BE				???	???		8GFC	
	FE						***	***	***
10GFC	BE								
	FE					10GFC			
16GFC	BE						???	???	16GFC
	FE								***

*** not approved for the FE on the FCIA roadmap
??? possibly earlier

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