
1394B Protocol Accelerations Task Group

Charter

- Improve 1394B efficiency by defining a modified arbitration protocol
 - » Minimize gaps
 - » Perform arbitration concurrently with data packets
 - » Interoperate with legacy (1394A and earlier) devices

Overview

- Take advantage of full duplex 1394B PHYs
 - » Send requests and grants against data flow
- Take advantage of 1394B port protocol
 - » Embed requests and grants in data stream
- Open Issues
 - » Operation with legacy devices
 - » Error handling
 - » Child or link request prioritization
 - » Details of encoding
 - » Expected performance gains
- See Mike Teener's paper for more details
 - » <http://zayante.com/p1394b/mt970925-arb-accel.pdf>

Members

- Group members are assumed to be the same as Port Protocol group
 - » This assumption is stated in the 9/24 1394B minutes
 - » Member Addresses:
anc@hplb.hpl.hp.com, colinws@bristol.st.com,
david.wooten@compaq.com, dlafolle@mipos2.intel.com,
dinstone@uk.xyratex.com, ed@hplb.hpl.hp.com,
jerry_hauck@ccm.sc.intel.com, Jim_Nave@ti.com,
kheilman@us.ibm.com, leewils@us.ibm.com, mike@zayante.com,
new@optsys.cl.nec.co.jp, oleg_awsienko@ccm.ch.intel.com,
palanisamy_mohanraj@ccm.ch.intel.com, paul.levy@vlsi.com,
sorna@vnet.ibm.com, ywata@flab.fujitsu.co.jp
 - » Member list maintained by Alistair Coles (anc@hplb.hpl.hp.com)

Logistics

- First draft documents generated in 12/97-1/98 timeframe
 - » after completion of prior commitment to 1394A suspend/resume
- Discussion via e-mail
 - » among port protocol group
- To reach me:
 - » Dave LaFollette
 - » dlafolle@mipos2.sc.intel.com
 - » (408)765-2587