

Fast 40 Proposal
David McCall - Quantum

Cable Study with PN-3357 Cables (LVDS) and Fast 40 Type Driver

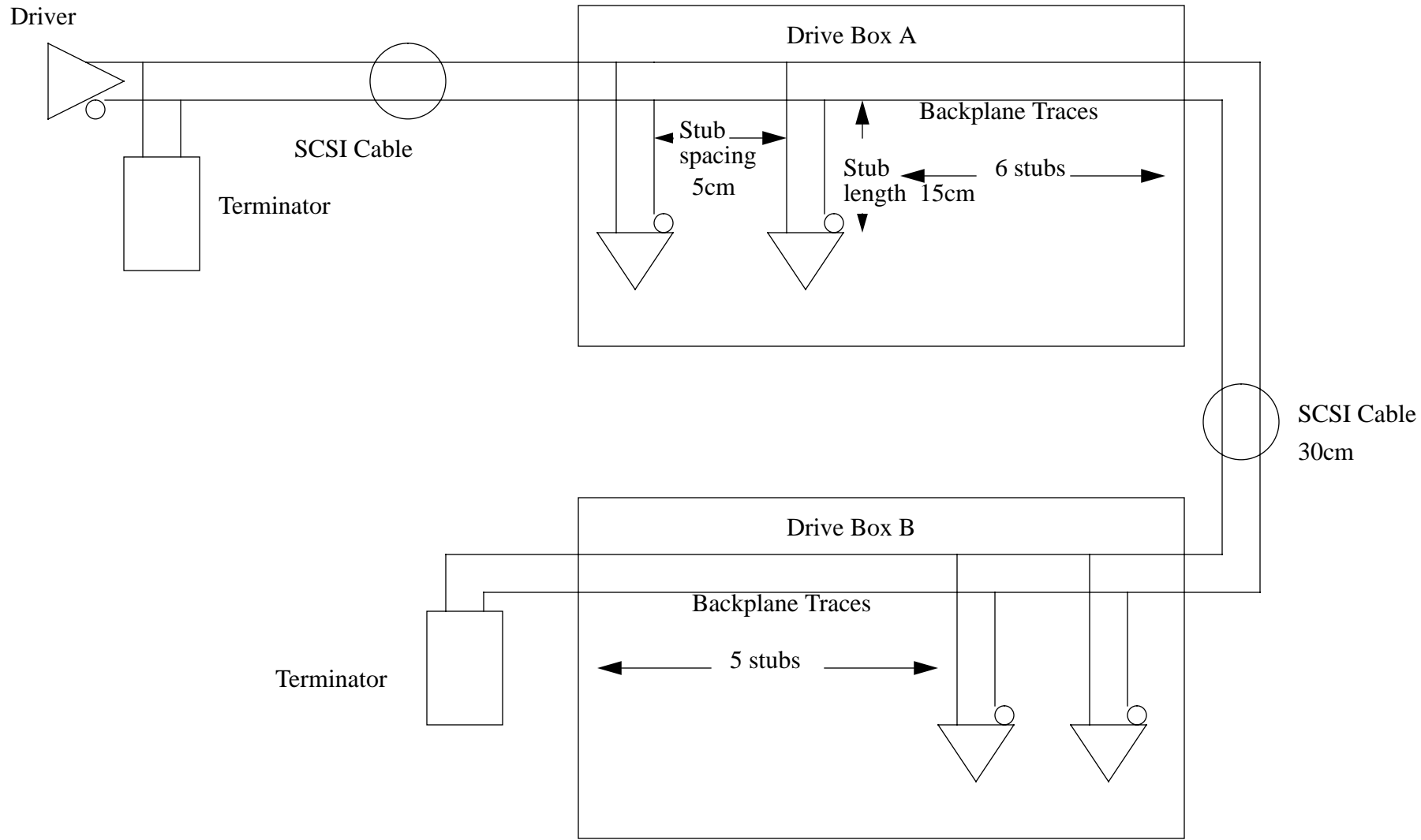
- Four Simulation Cases
 - 132 ohm cables (High end of spec) with 100 ohm termination
 - 90 ohm cables (Low end of spec) with 100 ohm termination
 - 90 ohm cables with 60 ohm termination
 - 75 ohm cables with 60 ohm termination
- Using previously described interconnect
- Assuming 28 AWG differential cables (0.38mm diameter)

Table 1: Cable Characteristics

Cable	132	90	75
Wire diameter	0.38mm	0.38mm	0.38mm
Wire to wire space	0.89mm	0.64mm	0.53mm
Er	2.1	2.6	2.6

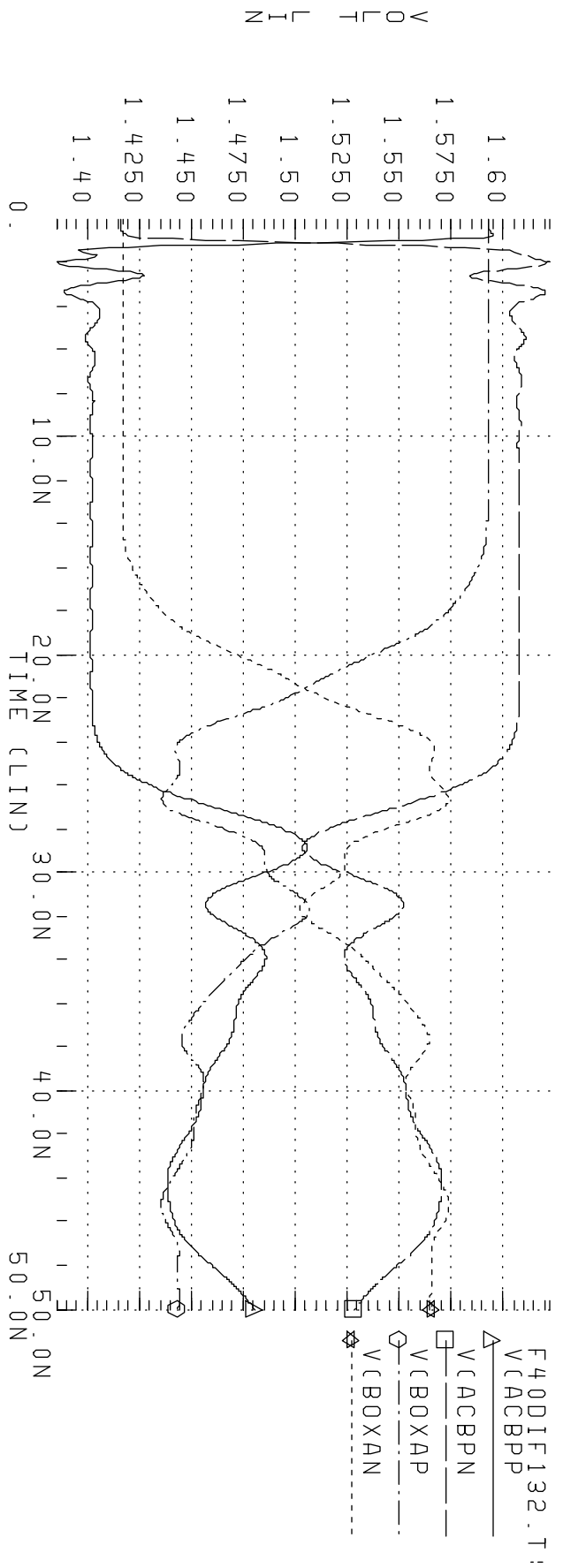
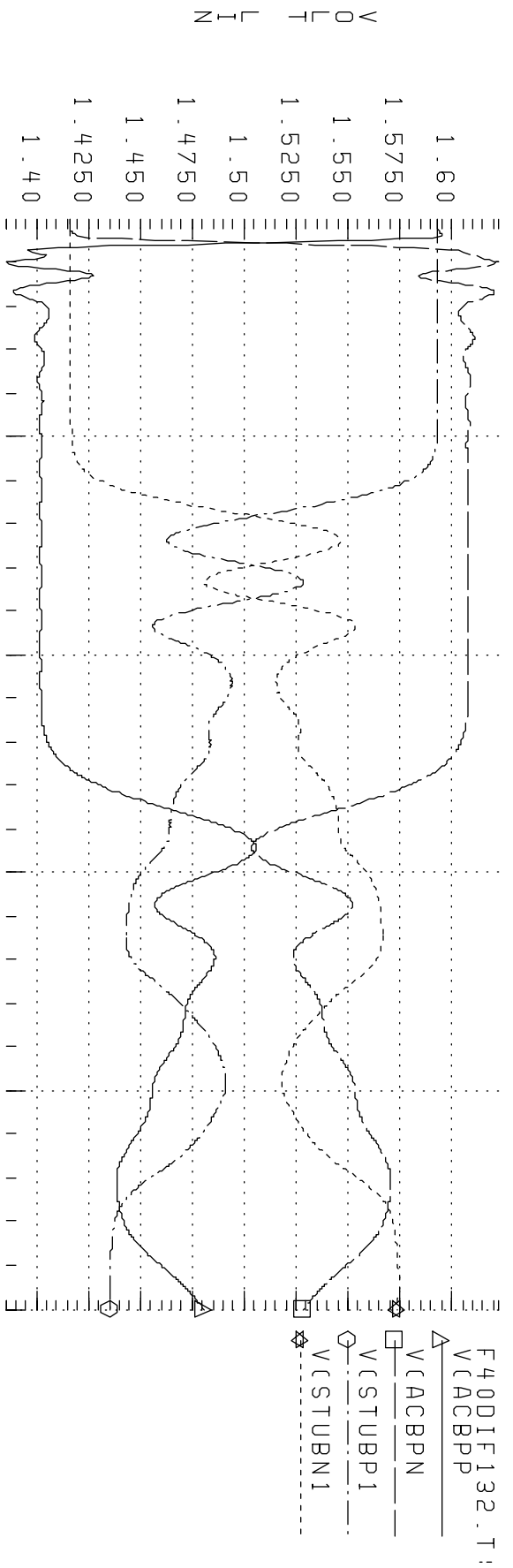
Comments

- Extend spec to allow for 75 ohm differential
- Allow a 60ohm termination option
- Also recommended by a RAID box designer

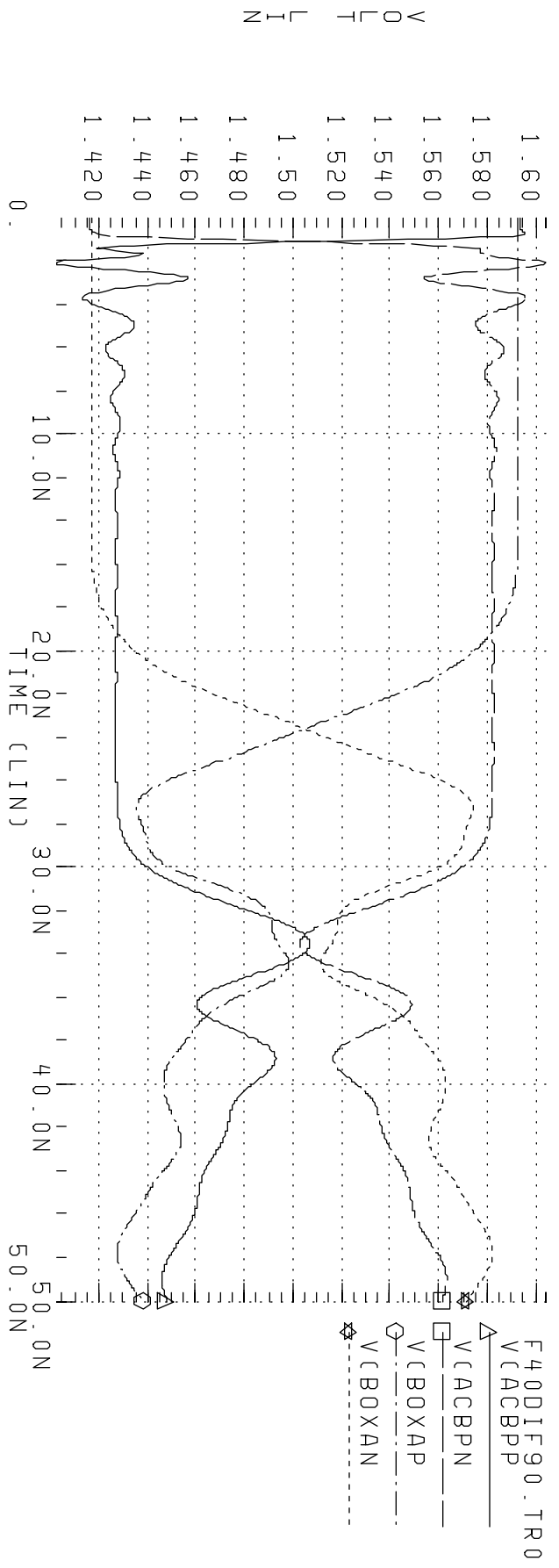
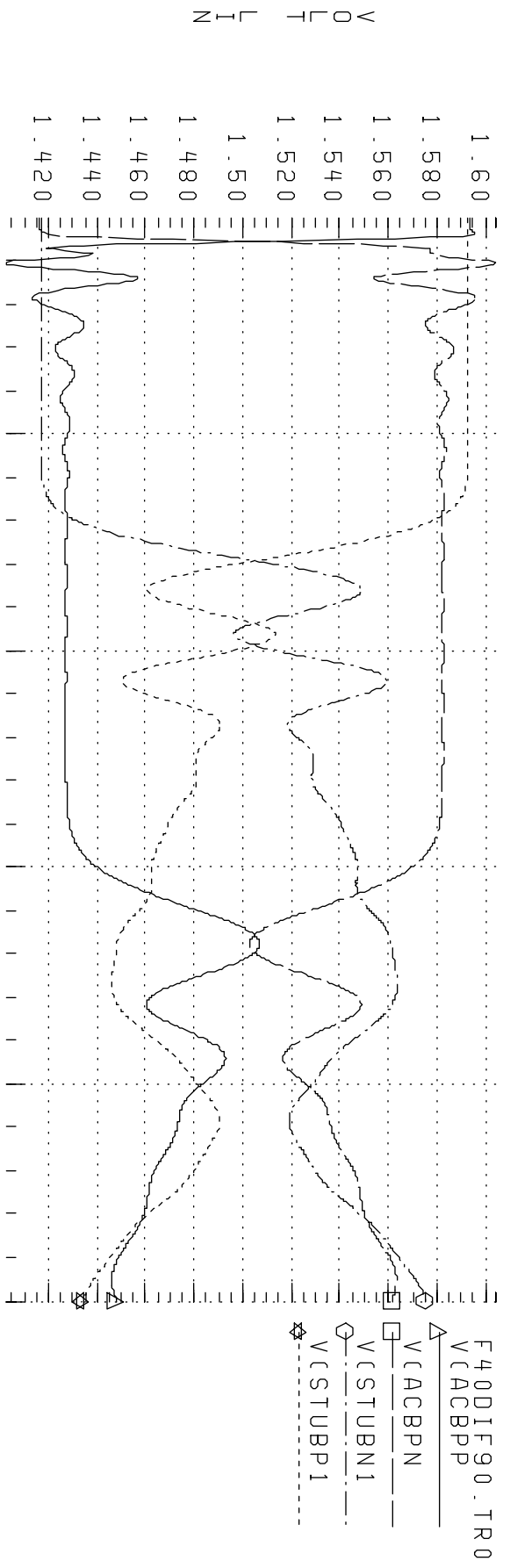


SCSI Simulation Configuration

286A 132DIF CABLE F40 DRIVER 1ST AND LAST SLOT IN 1ST BOX



286A 90DIF F40 DRIVER 1ST AND LAST SLOT IN 1ST BOX



286GA 90DIF WITH HIGH POWER F40 DRIVER 1ST AND LAST SLOTS IN 1ST BOX

