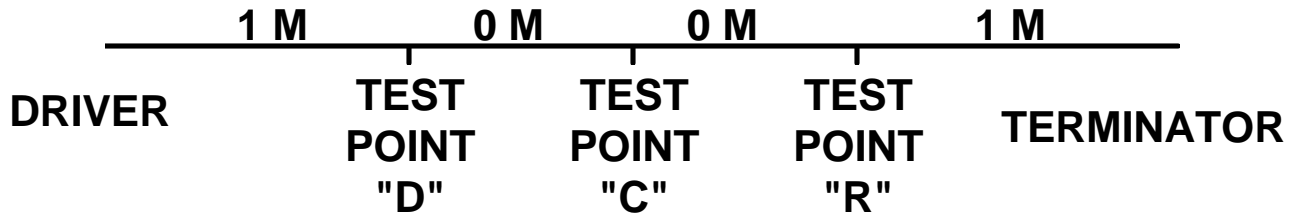


LVD SCSI TEST RESULTS WITH ASYMMETRICAL DRIVERS AND REAL TERMINATORS (FAST 40)

- **SOME DATA WAS ACQUIRED USING REAL LVD DEVICES AND TERMINATORS (POINT TO POINT ONLY)**
- **THESE LAB DEVICES HAD GROSSLY EXCESSIVE CAPACITANCE YET FULL PROTOCOL POINT TO POINT OPERATION WAS SUCCESSFUL AT 22 METERS**
- **THE USE OF ASYMMETRICAL DRIVERS APPEARS TO COMPENSATE FOR THE BIAS FROM THE TERMINATORS**
- **MISTERMINATION CAUSED BY EXCESSIVE CAPACITANCE APPEARS TO BE A LIMITING FACTOR (PRESENT SPECS ARE OK BUT NEED TO BE OBSERVED)**
- **OVERALL THIS DATA APPEARS TO CONFIRM THE ASSUMPTIONS USED FOR THE LVD STANDARD**
- **FULL SIGNAL TEST LOADS ARE BEING BUILT TO ENABLE FULL PROTOCOL TESTING FOR MULTIDROP CONDITIONS**

LVD SCSI TEST RESULTS WITH ASYMMETRICAL DRIVERS AND REAL TERMINATORS (FAST 40)

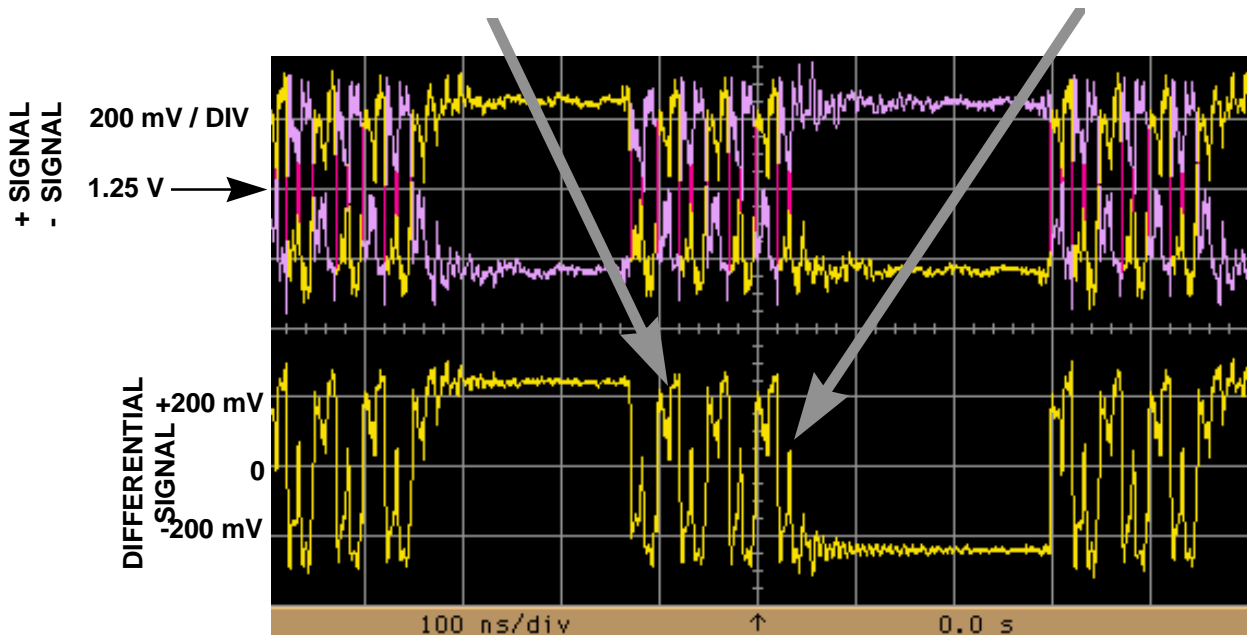


POINT TO POINT CONFIGURATION

THESE LAB DEVICES HAD EXCESSIVE CAPACITANCE
BY A FACTOR OF MORE THAN 2X
(APPROX 43/43/33)

"LEGAL" DEVICES WOULD HAVE NO PROBLEMS

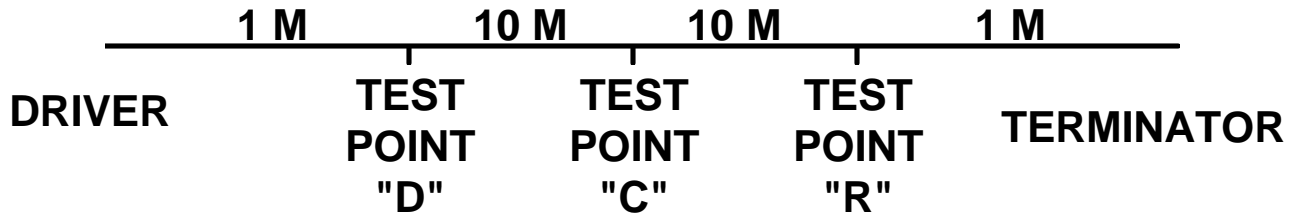
NOTE SEVERE REFLECTIONS CAUSED
BY EXCESSIVE TERMINATION CAPACITANCE



PROBES AT TEST POINT "C"

SYMLVD01

LVD SCSI TEST RESULTS WITH ASYMMETRICAL DRIVERS AND REAL TERMINATORS (FAST 40)

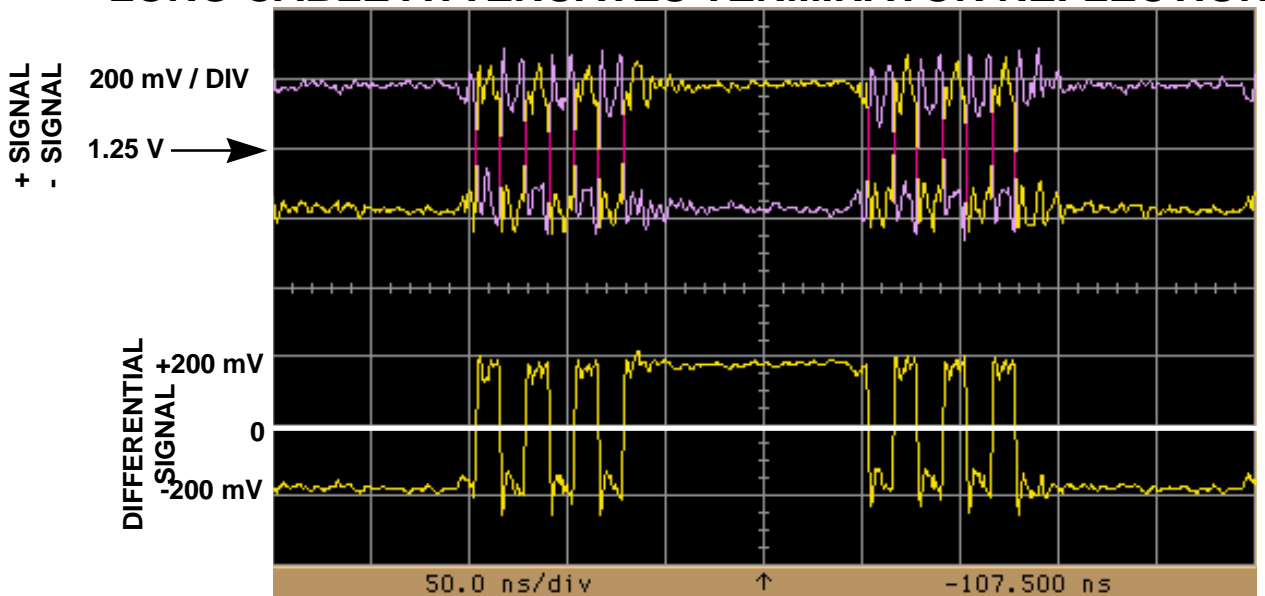


POINT TO POINT CONFIGURATION

**THESE LAB DEVICES HAD EXCESSIVE CAPACITANCE
BY A FACTOR OF MORE THAN 2X (APPROX 43/43/33)**

**NOTE EXCELLENT SYMMETRY USING ASYMMETRICAL
DRIVERS WITH ACTUAL LVD TERMINATORS**

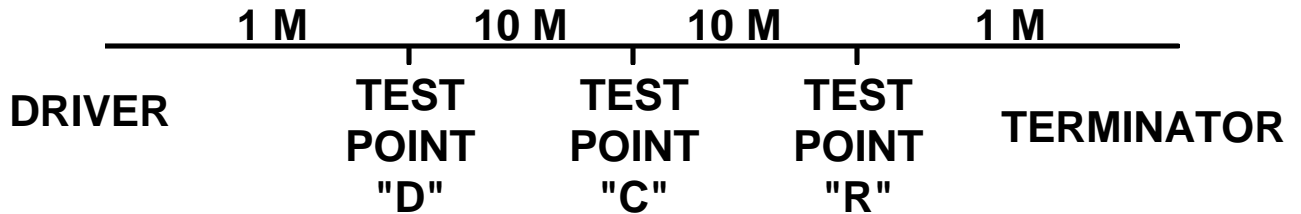
**NOTE ABSENCE OF REFLECTIONS NEAR DRIVER (HIGH
CAPACITANCE HELPS SLOW DOWN DRIVER EDGES AND
LONG CABLE ATTENUATES TERMINATOR REFLECTION)**



PROBES AT TEST POINT "D"

SYMLVD02

LVD SCSI TEST RESULTS WITH ASYMMETRICAL DRIVERS AND REAL TERMINATORS (FAST 40)

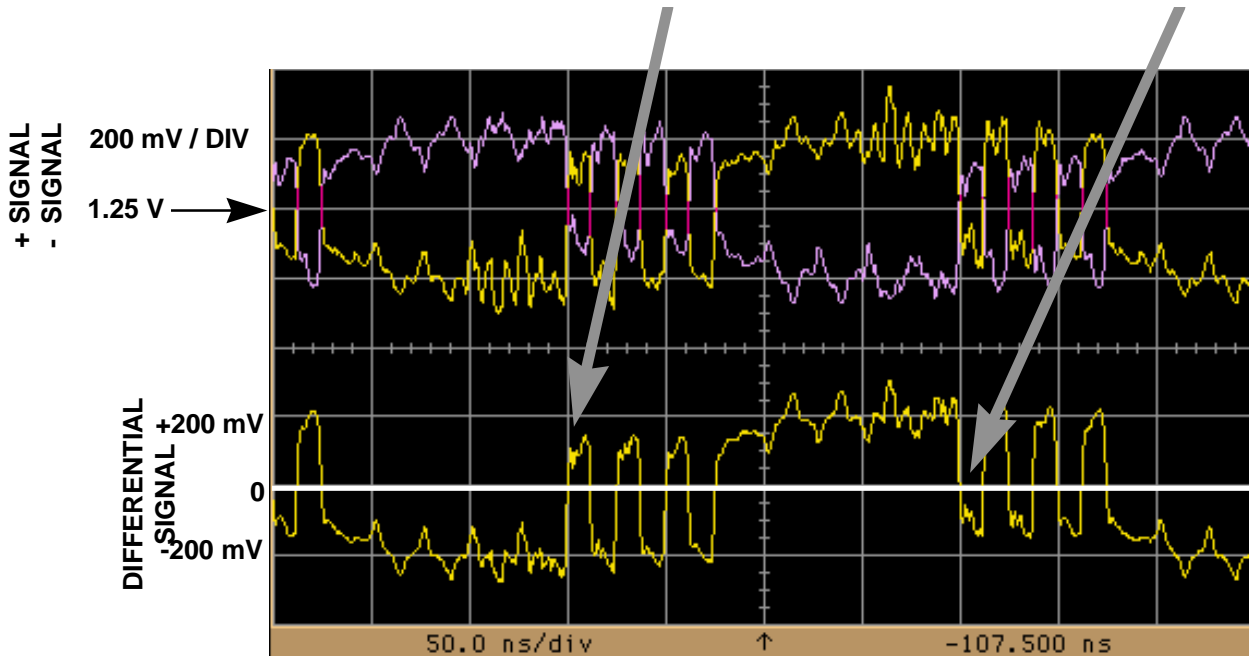


POINT TO POINT CONFIGURATION

**THESE LAB DEVICES HAD EXCESSIVE CAPACITANCE
BY A FACTOR OF MORE THAN 2X (APPROX 43/43/33)**

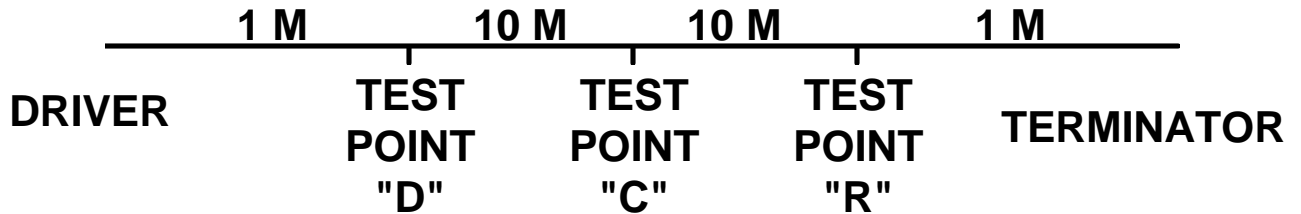
**NOTE LONG RANGE SYMMETRY BUT SOME LOSS
OF SHORT RANGE SYMMETRY CAUSED BY ISI**

NOTE REFLECTIONS BEGINNING TO SHOW UP



PROBES AT TEST POINT "C" SYMVLD03

LVD SCSI TEST RESULTS WITH ASYMMETRICAL DRIVERS AND REAL TERMINATORS (FAST 40)

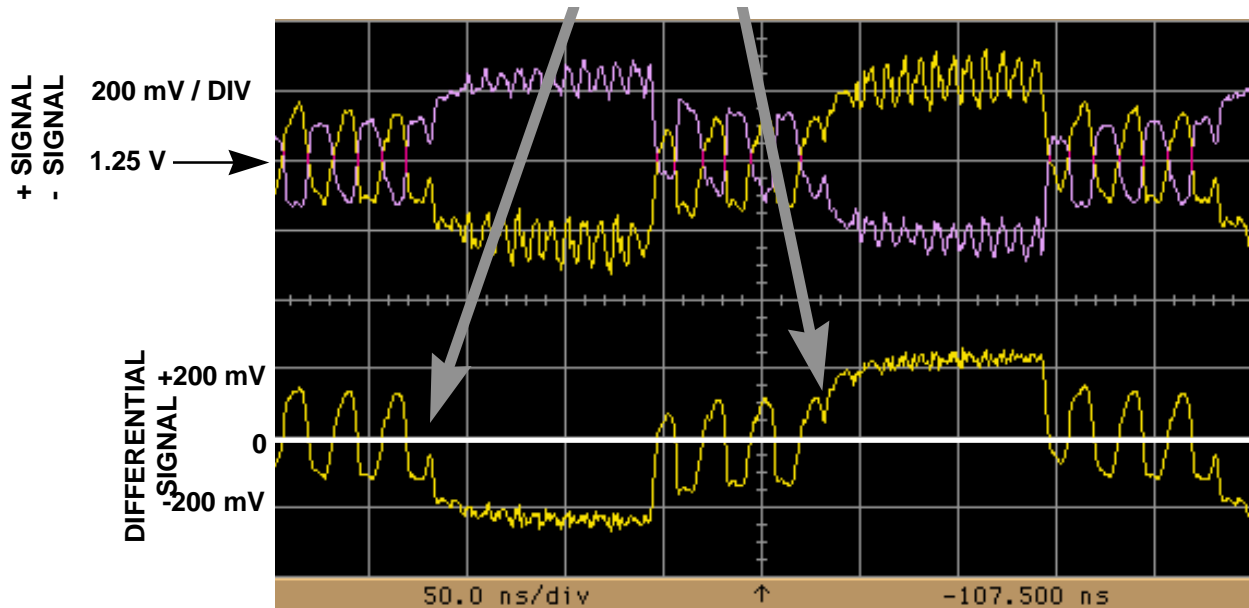


POINT TO POINT CONFIGURATION

**THESE LAB DEVICES HAD EXCESSIVE CAPACITANCE
BY A FACTOR OF MORE THAN 2X (APPROX 43/43/33)**

**NOTE LONG RANGE SYMMETRY BUT SIGNIFICANT LOSS OF
SHORT RANGE SYMMETRY CAUSED BY ISI (EXPECTED RESULT)**

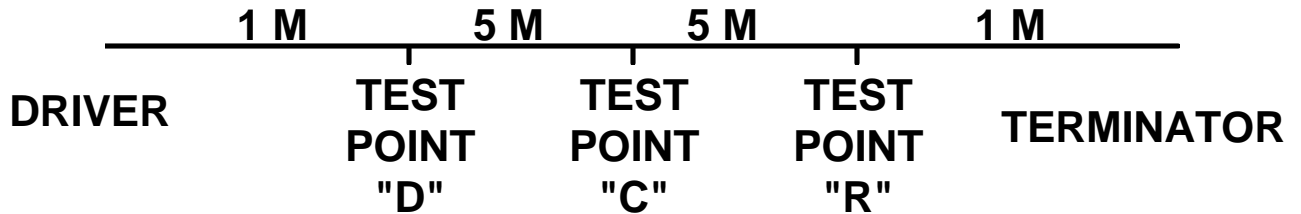
**NOTE REFLECTIONS ARE BECOMING THE
LIMITING FACTOR NEAR THE TERMINATOR**



PROBES AT TEST POINT "R"

SYMLVD04

LVD SCSI TEST RESULTS WITH ASYMMETRICAL DRIVERS AND REAL TERMINATORS (FAST 40)

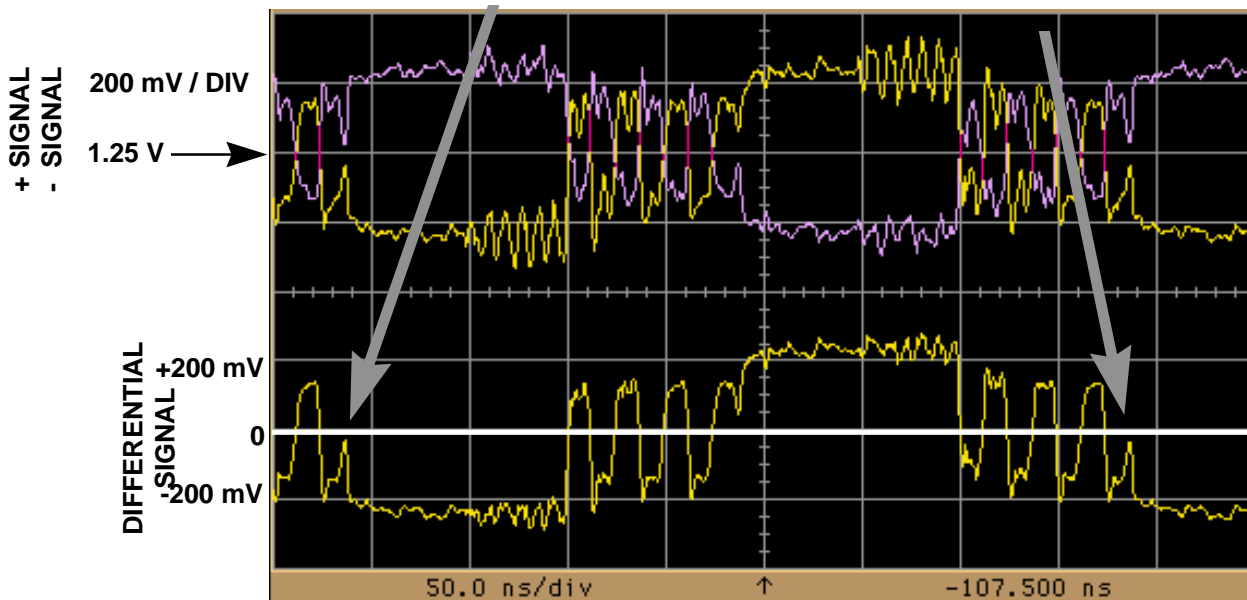


POINT TO POINT CONFIGURATION

**THESE LAB DEVICES HAD EXCESSIVE CAPACITANCE
BY A FACTOR OF MORE THAN 2X (APPROX 43/43/33)**

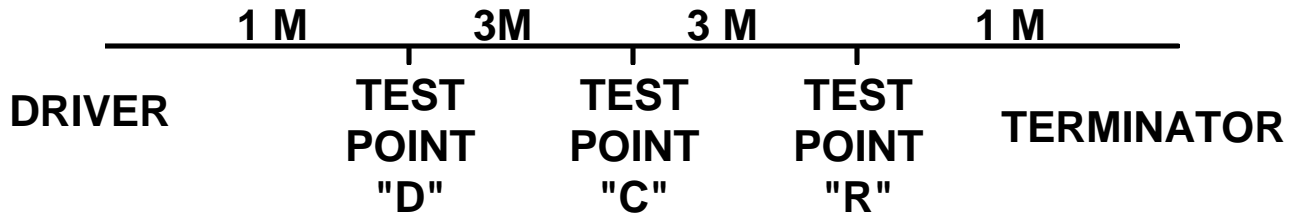
NOTE LESS ISI THAN FOR 22 METERS (EXPECTED RESULT)

**NOTE REFLECTIONS STILL SEVERE
NEAR THE TERMINATOR**



PROBES AT TEST POINT "R" SYMLVD07

LVD SCSI TEST RESULTS WITH ASYMMETRICAL DRIVERS AND REAL TERMINATORS (FAST 40)

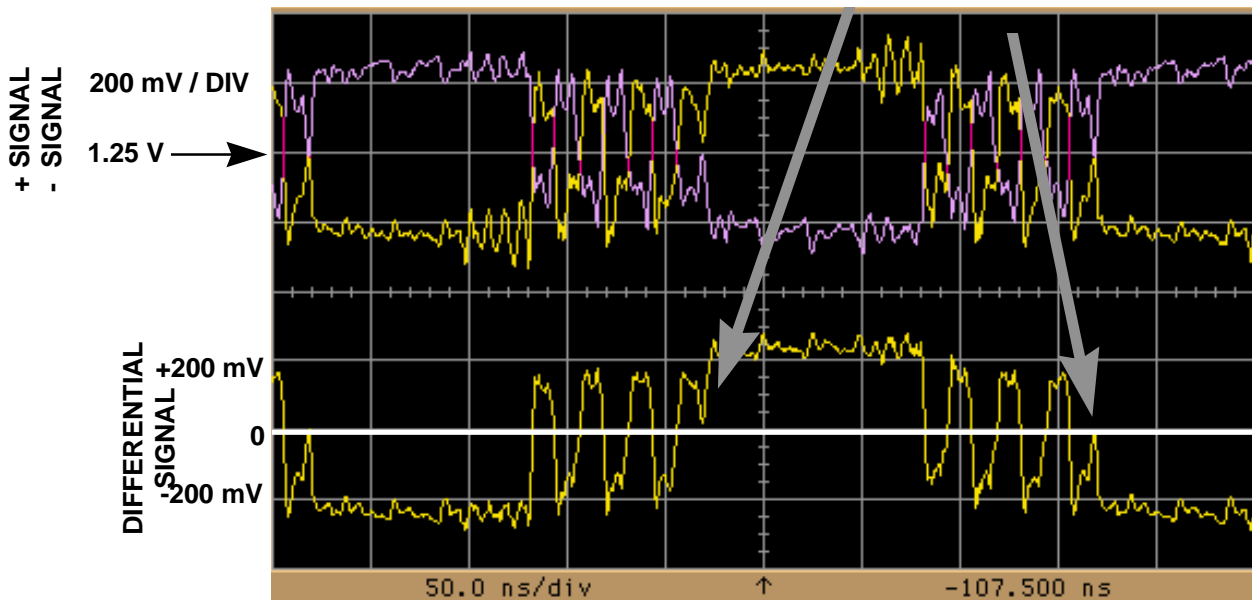


POINT TO POINT CONFIGURATION

THESE LAB DEVICES HAD EXCESSIVE CAPACITANCE
BY A FACTOR OF MORE THAN 2X (APPROX 43/43/33)

NOTE ISI SMALLER YET (EXPECTED RESULT)

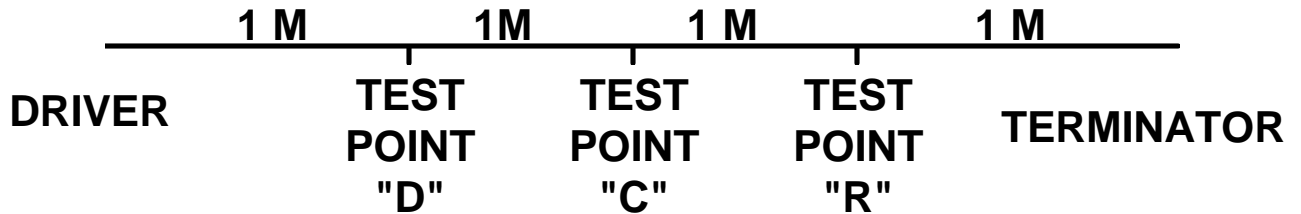
NOTE REFLECTIONS STILL SEVERE
NEAR THE TERMINATOR



PROBES AT TEST POINT "R"

SYMLVD10

LVD SCSI TEST RESULTS WITH ASYMMETRICAL DRIVERS AND REAL TERMINATORS (FAST 40)

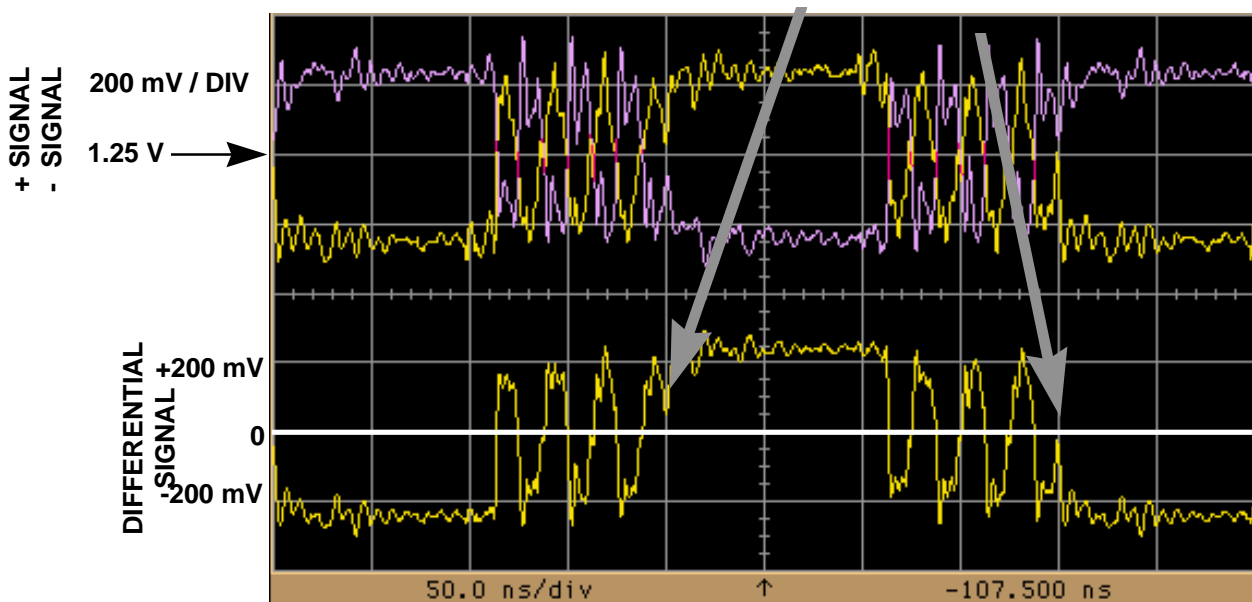


POINT TO POINT CONFIGURATION

**THESE LAB DEVICES HAD EXCESSIVE CAPACITANCE
BY A FACTOR OF MORE THAN 2X (APPROX 43/43/33)**

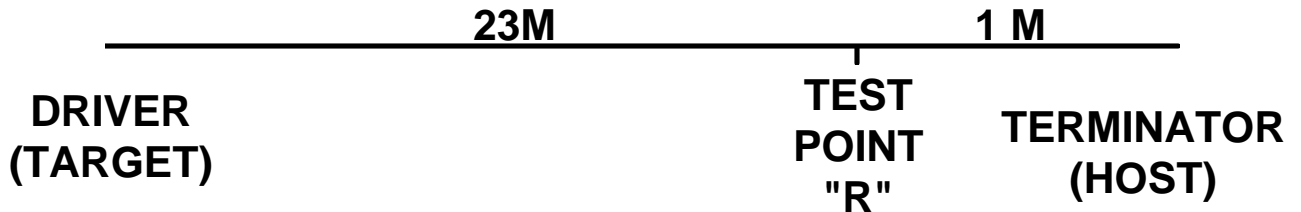
NOTE ISI SMALLER YET (EXPECTED RESULT)

**NOTE REFLECTIONS STILL SEVERE
(BUT SHORTER) NEAR THE TERMINATOR**



PROBES AT TEST POINT "R" SYMLVD13

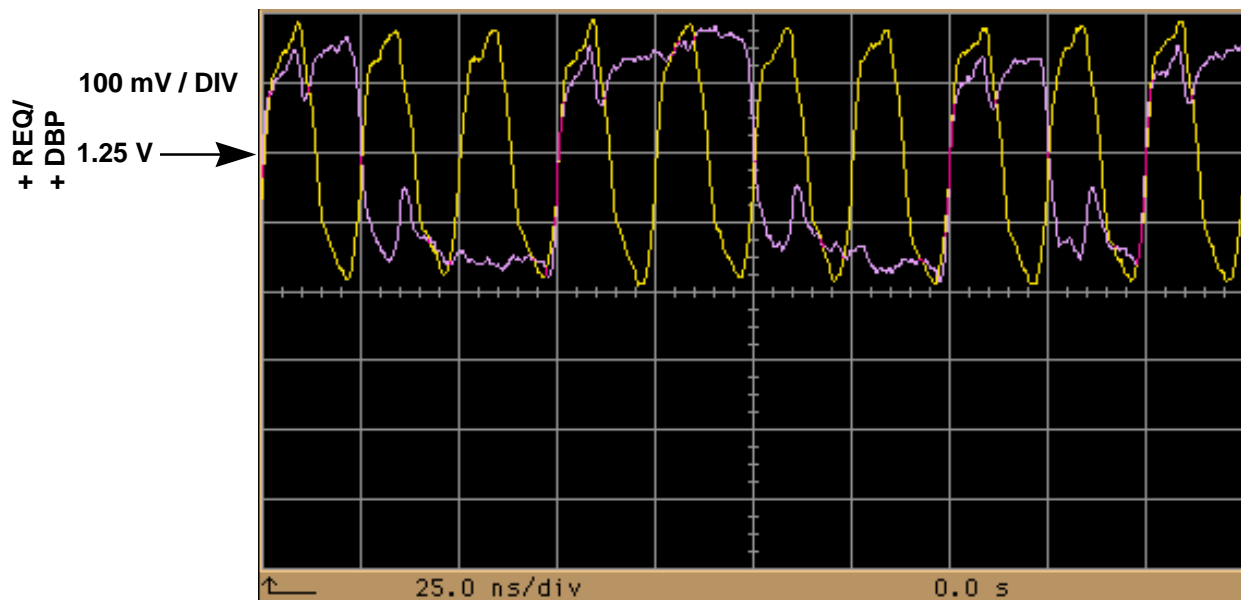
LVD SCSI TEST RESULTS WITH FULL PROTOCOL OPERATION (FAST 40)



POINT TO POINT CONFIGURATION

**THESE LAB DEVICES HAD EXCESSIVE CAPACITANCE
BY A FACTOR OF MORE THAN 2X (APPROX 43/43/33)**

**NOTE: REFLECTION HURTS DATA BIT MORE THAN
THE REQ SIGNAL (TIMING COINCIDENCE)**



PROBES AT TEST POINT "R"

SYMLVD21