• Bare Bones Voltage Bias

• Appeal for Any Reduction, which would be Goodness

**Bare Bones Budget**

Reason that this is needed is because present maximum voltage bias is 125mV.

Minimum output voltage swing is 270mV.

Only a 2.16 to 1 ratio.

Normal ratio I could find in any application notes was about a 10 to 1 ratio.

50-62.5mV range is attainable

1. 8.8mV for +- 10uA input leakage
2. 12mv for twisted pair cable cross-talk
3. 20mV for receiver input offset
4. 9.2mV for receiver overdrive and margin

Any Reduction is Goodness

Changing the termination bias voltage to 36mV will affect both the termination & output driver designs.

A 25mV drop in the termination bias voltage only requires a terminator to change. We are better off leaving the output driver designs unchanged.