

Data capture examples using Espruino analog input (red line) and 34401A multimeter (blue line) on the input side of a switching power converter. X axis shows the load on the 15V output of the converter. The analog input has a voltage divider 10k to GND and 196k to  $V_{in}$ , giving a measurement range of 69.98V and a resolution of about 16.6mV (12 bit). A series of readings are taken and processed as shown.

	<p>100 samples. The 10 highest and the 10 lowest values are thrown away, the remaining 80 points are averaged.</p>
	<p>40 samples. The 10 highest and the 10 lowest values are thrown away, the remaining 20 points are averaged.</p>
	<p>21 samples. The ten highest and the ten lowest values are thrown away, the remaining single data point is the median of the 21 points.</p>