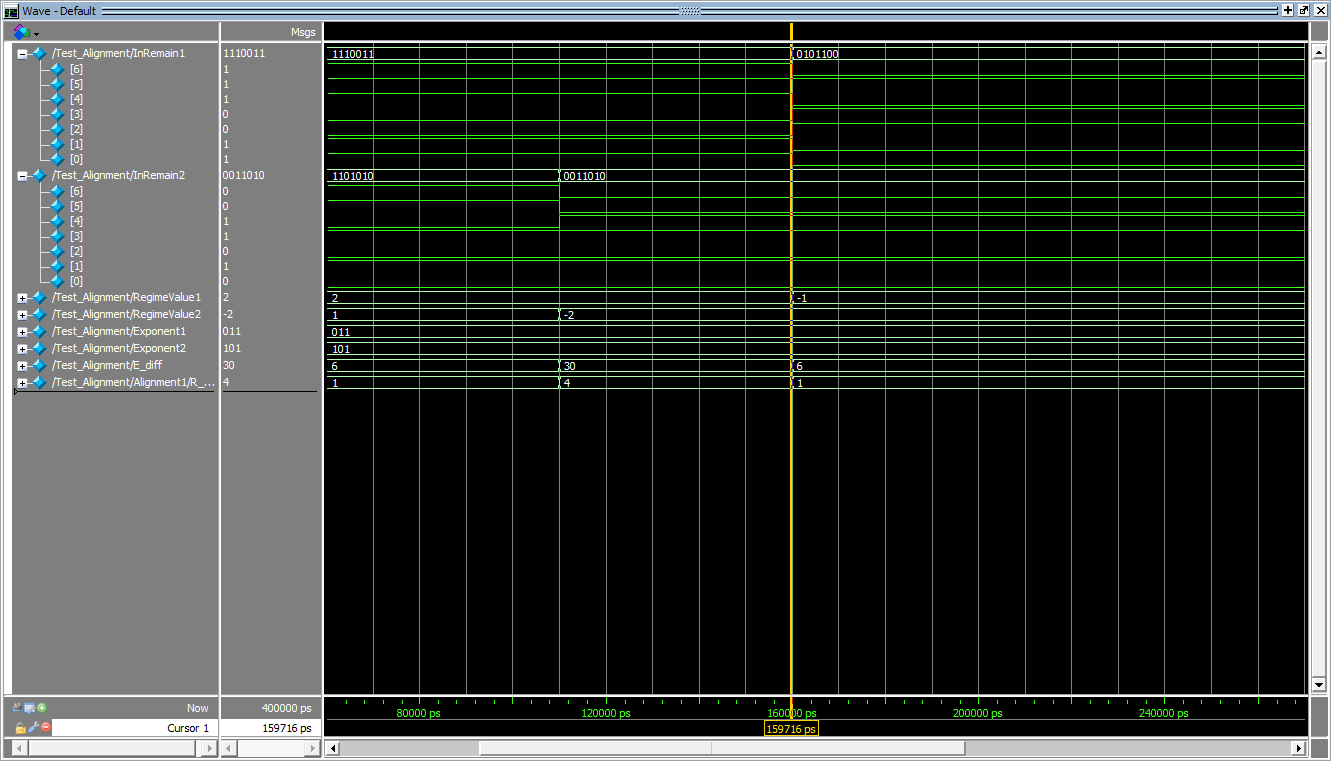
### Posit Arithmetic

Data Alignment



There are three sets of inputs, the first set has both input with positive regime, the second one has the one input with positive regime and another with negative regime, the third set has both input with negative regime.

As it can be seen from the graph, for 1st set, the input is 1110\_011 and 110\_101\_0, which has regime value of 2 and 1, exponent value of 3 and 5 respectively, giving a total 6 E\_diff. For 2nd set, the input is 1110\_011 and 001\_101\_0, which has regime value of 2 and -2, exponent value of 3 and 5 respectively, giving a total E\_diff of 30. For 3rd set, the input is 01\_011\_00 and 001\_101\_0, which has regime value of -1 and -2, exponent value of 3 and 5 respectively, giving a total E\_diff of 6.