OVERFLOW FOR FLOATING POINT TO INTEGER CONVERSION

122,174 Instructions

A carry out of exponent bit 14, while doing a floating point to integer conversion says you have overflow.

FA Module Hardware

j = 040060 000000 000000 000000 forced by instruction
k = Exponent Coefficient

Exponent difference in hardware is k-j using twos compliment addition.

j Exponent = 37717

borderline illegal k exponent = 40061
compliment j exponent = +37717

Carry 00000

Overflow

borderline legal k exponent = 40060
compliment j exponent = +37717

No Carry 77777

No overflow

C0001C0425