6-1215 TEURIT 1 6-6175

26 = 64 instructions can be held in or and Funct each
50 64-2= 128 total instructions

increments the index by the size of an int (4 bytes), and then stores that value, at Alindexti3, into the 1+ then colds the contents of \$100 and \$150, which core Alindexti3 + Alindexti3 and

Stores the result in 18th. 18th is then stored in register 18t2. So 18th= Alinday + Alinday 11.

39 7bits

Shart 7bits 0 700 indinutions

since splitting opcode

to hold 0-99 in opcode or Funct

SHAM still 5 bits

So... 40-bit word size 3 register places (RT, RS, Rd), so 7-bits each

- 14-bit opcodel funct

- 5-16, t siamt

21 bits remaining

Beponent: 8-bits ansigned 10 0-> 256

Fraction 23-bits, but since 1 Fraction, can hold 24-bit integer

50 can hld 224. 2127 + 224. 2129 = 9.86.10-32 through 1.14-1046

1) This overflows because (3,5.1015) = 1.225.10 1.71.14.104. By changing 3.5.10 4 to 0.00035.1020, (0.00035.1020) = 1.225.10 33, which does not overflow and the operation will succeed athout problem.

This does not overlunderflow.

(5) This underflows because (13.2-10-20) [13.5-10-1): 3.77-10-45 < 9.86-10-32 Dividing

This underthous because (13.6.10) = 3.77.10-32, which allows the operation to complete successfully