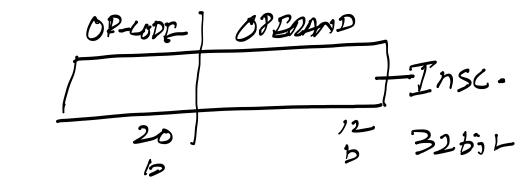
Code generation

Sunday, 29 November 2020 4:24 PM

Three Address Code (TAC):



$$\chi = ((A+B)-(C+D)) * N$$

$$E = A + B$$

$$F = C + D$$

$$G = E - F$$

$$X = G \times N$$

$$R1 = 2 \times 3$$

 $R1 = 3 + R1$
 $R3 = R1 + 4$
 $R3 = 3 + 21$
 $R5 = 3 + 21$
 $R6 = R5 - 1$
 $R6 = R2 - 2$
 $R7 = 2 \times R6$

S-len Code Sice
- faster Code
execution speed.

Optimised code:

R1 = 2x3

R1 = 3÷R1

R3 = R1+4

R4 = R2-1

R7 = 2xR6

- To find a Dalance

n/w the size of the

code and the

speed of excurrion.

Postfix Notation.

10

15 85

AB+CD:-NX

RPN

Infix

Infix

Left Root, Right

A + B

Right, Right, Root

A B +

Rever Polis

Notation.