

# Analisis de las prestaciones de las arquitecturas

	dhrystone	whetstone	Compiler C	xv
real	12,857	0,363	10,516	6,070
User	0,916	0,340	8,249	0,932
Sys	0,004	0,004	0,744	0,068

## dhrystone

$$S_{C-B} = \frac{B}{C} = \frac{18}{0,920} = 19,565$$

$$S_{C-A} = \frac{A}{C} = \frac{5}{0,92} = 5,435$$

## whetstone

$$S_{C-B} = \frac{B}{C} = \frac{2,5}{0,344} = 7,267$$

$$S_{C-A} = \frac{A}{C} = \frac{10}{0,344} = 29,070$$

## Compiler C

$$S_{C-B} = \frac{B}{C} = \frac{40}{8,993} = 4,448$$

$$S_{C-A} = \frac{A}{C} = \frac{130}{8,993} = 14,456$$

## xv

$$S_{C-B} = \frac{B}{C} = \frac{4,5}{1} = 4,5$$

$$S_{C-A} = \frac{A}{C} = \frac{15}{1} = 15$$

Aquí sumar user + real para hacer los cálculos

## Mitja aritmética

	A	B	C
dhrystone	5	18	
whetstone	2,5	10	
gcc	40	130	
xv	4,5	15	

$$\bar{X}_A = \frac{5 + 2,5 + 40 + 4,5}{4} = 13$$

$$\bar{X}_B = \frac{18 + 10 + 130 + 15}{4} = 43,25$$

$$\bar{X}_C = \frac{0,92 + 0,344 + 8,993 + 1}{4} = 2,814$$

$$S_{C-A} = \frac{\bar{X}_A}{\bar{X}_C} = \frac{13}{2,814} = 4,619$$

$$S_{C-B} = \frac{\bar{X}_B}{\bar{X}_C} = \frac{43,25}{2,814} = 15,37$$

## Mitjana Geométrica

$$\bar{X}_A = \sqrt[4]{5 * 2,5 * 40 * 4,5} = 6,887$$

$$\bar{X}_B = \sqrt[4]{18 * 10 * 130 * 15} = 24,34$$

$$\bar{X}_C = \sqrt[4]{0,92 * 0,344 * 8,993 * 1} = 1,299$$

$$S_{C-A} = \frac{\bar{X}_A}{\bar{X}_C} = \frac{6,887}{1,299} = 5,30$$

$$S_{C-B} = \frac{\bar{X}_B}{\bar{X}_C} = \frac{24,34}{1,299} = 18,73$$