CPU Time =
$$\frac{5500}{2\times10^9}$$

$$= 2.75 \times 10^{-6} \text{ s}$$

Avg. CPI =
$$\frac{5500}{2000}$$
 = 2.75

'Load' reduced by 1/2:

Total instruction 5 = 750+250+250+5000 = 1750

CPU Time =
$$\frac{4250}{2\times109}$$

$$= 4250$$

$$= 2.125 \times 10^{-6}$$

$$=\frac{4250}{1750}$$