

Ex 1.8, 1.9 and 1.10 Solution: Modern Processor Design by John Paul Shen and Mikko H. Lipasti :

Q.1.8: Recent processors like the Pentium 4 processors do not implement single-cycle shifts. Given the scenario of Problem 7, assume that $s = 50\%$ of the additional integer and shift instructions introduced by strength reduction are shifts, and shifts now take four cycles to execute. Recompute the cycles per instruction and overall program speedup. Is strength reduction still a good optimization?

Q.1.9: Given the assumptions of Problem 8, solve for the break-even ratio s (percentage of additional instructions that are shifts). That is, find the value of s (if any) for which program performance is identical to the baseline case without strength reduction (Problem 6).

Q.1.10: Given the assumptions of Problem 8, assume you are designing the shift unit on the Pentium 4 processor. You have concluded there are two possible implementation options for the shift unit: 4-cycle shift latency at a frequency of 2 GHz, or 2-cycle shift latency at 1.9 GHz. Assume the rest of the pipeline could run at 2 GHz, and hence the 2-cycle shifter would set the entire processor's frequency to 1.9 GHz. Which option will provide better overall performance?

Solution: http://targeticsnow.blogspot.in/2013/11/modern-processor-design-by-john-paul_13.html

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