

CS 311 - Computer Architecture Lab

Assignment-4

Report

Table:

Program	No. of cycles taken with pipelining(without pipelining)	No. of stall With pipelining	No. of times wrong path instruction entered pipeline
even_odd	13(30)	4	0
prime	44(145)	16	5
palindrome	106(245)	47	7
fibonacci	160(390)	63	16
descending	527(1385)	208	88

There is a significant decrease in number of cycles taken to complete task with pipelining compared to the one without pipelining. The number of cycles taken to complete task is less than half of number of cycles when is in without pipelining model.