数字部分 实验二 逻辑综合与等价性检查

五、思考题

(1) 从2.4.4节生成的报告中，找出以下数据并填入表格中。

**report\_timing命令运行结果中的部分数据**

|  |  |
| --- | --- |
| **Critical Path** | **Value** |
| **Group** |  |
| **Start Point** |  |
| **End Point** |  |
| **Clock Edge (ps)** |  |
| **Output Delay (ps)** |  |
| **Require Time (ps)** |  |
| **Data Path Delay (ps)** |  |
| **Slack (ps)** |  |

**report\_power命令运行结果中的部分数据**

|  |  |
| --- | --- |
| **Item** | **Value** |
| **Instance** |  |
| **Cells** |  |
| **Leakage Power (nW)** |  |
| **Dynamic Power (nW)** |  |
| **Total Power (nW)** |  |

**report\_qor命令运行结果中的部分数据**

|  |  |
| --- | --- |
| **Item** | **Value** |
| **Clock Period (ps)** |  |
| **Critical Path Slack (ps)** |  |
| **Total Negative Slack (TNS) (ps)** |  |
| **Sequential Instance Count** |  |
| **Combinational Instance Count** |  |
| **Total Area (um2)** |  |
| **Max Fanout** |  |
| **Min Fanout** |  |
| **Average Fanout** |  |

(2) 从4.4节生成的报告中，找出以下数据并填入表格中。

**set system mode lec命令运行结果**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Mapped points: SYSTEM class** | | | | |
| **Mapped points** | **PI** | **PO** | **DFF** | **Total** |
| **Golden** |  |  |  |  |
| **Revised** |  |  |  |  |

**compare**命令运行结果

|  |  |  |  |
| --- | --- | --- | --- |
| **Compared points** | **PO** | **DFF** | **Total** |
|  |  |  |  |

**report verification**命令运行结果

|  |  |
| --- | --- |
| **Verification Report** | |
| **Category** | **Count** |
| **1.** **Non-standard modeling options used:** |  |
| **2.** **Incomplete verification:** |  |
| **3.** **User modification to design:** |  |
| **4.** **Conformal Constraint Designer clock domain crossing checks recommended:** |  |
| **5.** **Design ambiguity:** |  |
| **6.** **Compare Results:** |  |