Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Configuration** | **Operation assignment** | **Clock cycles** | **search runtime (ms)** | **optimal [yes/no]** |
| 1 adder, 1 multiplier | adder 1: 12 mul 1: 16 | 34 | 810 | yes |
| 1 adder, 2 multiplier | adder 1: 12 mul 1: 8 mul 2: 16 | 18 | 902 | yes |
| 1 adder, 3 multiplier | adder 1: 12 mul 1: 6 mul 2: 10 mul 3: 15 | 16 | 1m6 | yes |
| 2 adder, 2 multiplier | adder 1:10 adder 2: 4 mul 1: 8 mul 2: 16 | 18 | 877 | yes |
| 2 adder, 3 multiplier | adder 1: 8 adder 2: 8 mul 1: 6 mul 2: 12 mul 3: 12 | 15 | 948 | yes |
| 2 adder, 4 multiplier | adder 1: 6 adder 2: 12 mul 1: 4 mul 2: 8 mul 3: 12 mul 4: 16 | 11 | 1s264msec | yes |