

| Hardware | Inputs | Outputs | Synthesis <i>LUTs</i> | Trend <i>LUTs</i> |
|---|--------|---------|--------------------------|----------------------|
| Gate Level 2LD (NGEN) | 2 | 4 | 2 | 0.5n |
| | 3 | 8 | 4 | 0.5n |
| | 4 | 16 | 8 | 0.5n |
| | 5 | 32 | 16 | 0.5n |
| | 6 | 64 | 64 | n |
| | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1056 | n |
| | 11 | 2048 | 2112 | n |
| | 12 | 4096 | 2176 | 0.5n |
| | 13 | 8192 | 8264 | n |
| | 14 | 16384 | 8320 | 0.5n |
| | 15 | 32768 | 16512 | 0.5n |
| | 16 | 65536 | 65664 | n |
| | 17 | 131072 | 65924 | 0.5n |
| | 18 | 262144 | 161704 | 0.5n |
| Generalized Function Based Decoders | 2 | 4 | 2 | 0.5n |
| | 3 | 8 | 4 | 0.5n |
| | 4 | 16 | 8 | 0.5n |
| | 5 | 32 | 16 | 0.5n |
| | 6 | 64 | 64 | n |
| | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1056 | n |
| | 11 | 2048 | 2112 | n |
| | 12 | 4096 | 2176 | 0.5n |
| | 13 | 8192 | 8264 | n |
| | 14 | 16384 | 16524 | n |
| | 15 | 32768 | 32916 | n |
| | 16 | 65536 | 65864 | n |
| | 17 | 131072 | 131728 | n |
| | 18 | 262144 | 132128 | 0.5n |
| Generalized Loop Based Decoders | 2 | 4 | 2 | 0.5n |
| | 3 | 8 | 4 | 0.5n |
| | 4 | 16 | 8 | 0.5n |
| | 5 | 32 | 16 | 0.5n |
| | 6 | 64 | 64 | n |
| | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 682 | 0.5n |
| | 11 | 2048 | 2188 | n |
| | 12 | 4096 | 2974 | 0.75n |
| | 13 | 8192 | 8361 | n |
| | 14 | 16384 | 19092 | 1.165 |
| | 15 | 32768 | 20612 | 0.629 |
| | 16 | 65536 | 47746 [1] | 0.729 |
| | 17 | 131072 | failed | |
| | 18 | 262144 | | |
| Generalized Tree Based Decoders (2, 4) | 3 | 8 | 4 | 0.5n |
| | 4 | 16 | 8 | 0.5n |
| | 5 | 32 | 32 | n |
| | 6 | 64 | 66 | n |
| | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2072 | n |
| | 12 | 4096 | 4128 | n |
| | 13 | 8192 | 8224 | n |
| | 14 | 16384 | 8256 | 0.5n |
| | 15 | 32768 | 32906 | n |
| | 16 | 65536 | 66312 | n |

| Hardware | Inputs | Outputs | Synthesis <i>LUTs</i> | Trend <i>LUTs</i> |
|--|--------|---------|--------------------------|----------------------|
| | 17 | 131072 | 132616 | n |
| | 18 | 262144 | 265256 | n |
| Generalized Tree Based Decoders (2, 8) | 4 | 16 | 8 | 0.5n |
| | 5 | 32 | 32 | n |
| | 6 | 64 | 34 | 0.5n |
| | 7 | 128 | 132 | n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2072 | n |
| | 12 | 4096 | 4128 | n |
| | 13 | 8192 | 8224 | n |
| | 14 | 16384 | 8256 | 0.5n |
| | 15 | 32768 | 32906 | n |
| | 16 | 65536 | 66312 | n |
| | 17 | 131072 | 132616 | n |
| | 18 | 262144 | 265256 | n |
| Generalized Tree Based Decoders (2, 16) | 5 | 32 | 32 | n |
| | 6 | 64 | 34 | 0.5n |
| | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 288 | 0.5n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1056 | 0.5n |
| | 12 | 4096 | 4128 | n |
| | 13 | 8192 | 8240 | n |
| | 14 | 16384 | 8240 | 0.5n |
| | 15 | 32768 | 32914 | n |
| | 16 | 65536 | 65864 | n |
| | 17 | 131072 | 131720 | n |
| | 18 | 262144 | 264232 | n |
| Generalized Tree Based Decoders (2, 32) | 6 | 64 | 66 | n |
| | 7 | 128 | 132 | n |
| | 8 | 256 | 264 | n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1072 | 0.5n |
| | 12 | 4096 | 2096 | 0.5n |
| | 13 | 8192 | 8736 | n |
| | 14 | 16384 | 8256 | 0.5n |
| | 15 | 32768 | 32906 | n |
| | 16 | 65536 | 66308 | n |
| | 17 | 131072 | 132616 | n |
| | 18 | 262144 | 265248 | n |
| Generalized Tree Based Decoders (4, 4) | 3 | 8 | 4 | 0.5n |
| | 4 | 16 | 8 | 0.5n |
| | 5 | 32 | 32 | n |
| | 6 | 64 | 66 | n |
| | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2072 | n |
| | 12 | 4096 | 4116 | n |
| | 13 | 8192 | 4144 | 0.5n |
| | 14 | 16384 | 16472 | n |
| | 15 | 32768 | 32964 | n |
| | 16 | 65536 | 66000 | n |
| | 17 | 131072 | 131872 | n |
| | 18 | 262144 | 266320 | n |
| | 4 | 16 | 8 | 0.5n |
| | 5 | 32 | 32 | n |
| | 6 | 64 | 66 | n |
| | 7 | 128 | 132 | n |
| | 8 | 256 | 136 | 0.5n |

| Hardware | Inputs | Outputs | Synthesis <i>LUTs</i> | Trend <i>LUTs</i> |
|--|--------|---------|--------------------------|----------------------|
| Generalized Tree Based Decoders (4, 8) | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2072 | n |
| | 12 | 4096 | 4116 | n |
| | 13 | 8192 | 8216 | n |
| | 14 | 16384 | 16472 | n |
| | 15 | 32768 | 32932 | n |
| | 16 | 65536 | 66000 | n |
| | 17 | 131072 | 131736 | n |
| | 18 | 262144 | 266320 | n |
| Generalized Tree Based Decoders (4, 16) | 5 | 32 | 32 | n |
| | 6 | 64 | 34 | 0.5n |
| | 7 | 128 | 132 | n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2072 | n |
| | 12 | 4096 | 4112 | n |
| | 13 | 8192 | 8216 | n |
| | 14 | 16384 | 8256 | n |
| | 15 | 32768 | 32932 | n |
| | 16 | 65536 | 66832 | n |
| | 17 | 131072 | 131736 | n |
| | 18 | 262144 | 267344 | n |
| Generalized Tree Based Decoders (4, 32) | 6 | 64 | 34 | 0.5n |
| | 7 | 128 | 132 | n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1072 | 0.5n |
| | 12 | 4096 | 4112 | n |
| | 13 | 8192 | 8216 | n |
| | 14 | 16384 | 8256 | 0.5n |
| | 15 | 32768 | 32868 | n |
| | 16 | 65536 | 66832 | n |
| | 17 | 131072 | 133392 | n |
| | 18 | 262144 | 267344 | n |
| Generalized Tree Based Decoders (8, 4) | 7 | 128 | 136 | n |
| | 8 | 256 | 264 | n |
| | 9 | 512 | 288 | 0.5n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2072 | n |
| | 12 | 4096 | 2312 | 0.5n |
| | 13 | 8192 | 8224 | n |
| | 14 | 16384 | 16912 | n |
| | 15 | 32768 | 18468 | 0.5n |
| | 16 | 65536 | 65924 | n |
| | 17 | 131072 | 132398 | n |
| | 18 | 262144 | 147752 | 0.5n |
| Generalized Tree Based Decoders (8, 8) | 7 | 128 | 136 | n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 288 | 0.5n |
| | 10 | 1024 | 1040 | n |
| | 11 | 2048 | 2068 | n |
| | 12 | 4096 | 2312 | 0.5n |
| | 13 | 8192 | 8220 | n |
| | 14 | 16384 | 16416 | n |
| | 15 | 32768 | 18500 | 0.5n |
| | 16 | 65536 | 65860 | n |
| | 17 | 131072 | 131877 | n |
| | 18 | 262144 | 148004 | 0.5n |
| | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 288 | 0.5n |
| | 10 | 1024 | 1044 | n |

| Hardware | Inputs | Outputs | Synthesis <i>LUTs</i> | Trend <i>LUTs</i> |
|---|--------|---------|--------------------------|----------------------|
| Generalized Tree Based Decoders (8, 16) | 11 | 2048 | 2068 | n |
| | 12 | 4096 | 4124 | n |
| | 13 | 8192 | 8240 | n |
| | 14 | 16384 | 16416 | n |
| | 15 | 32768 | 32883 | n |
| | 16 | 65536 | 66820 | n |
| | 17 | 131072 | 131877 | n |
| | 18 | 262144 | 263979 | n |
| Generalized Tree Based Decoders (8, 32) | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 264 | n |
| | 9 | 512 | 288 | 0.5n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1064 | 0.5n |
| | 12 | 4096 | 4124 | n |
| | 13 | 8192 | 8240 | n |
| | 14 | 16384 | 16432 | n |
| | 15 | 32768 | 32883 | n |
| | 16 | 65536 | 66820 | n |
| | 17 | 131072 | 84524 | 0.65n |
| | 18 | 262144 | 263979 | n |
| Generalized Tree Based Decoders (8, 64) | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 264 | n |
| | 9 | 512 | 288 | 0.5n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1064 | 0.5n |
| | 12 | 4096 | 2312 | 0.5n |
| | 13 | 8192 | 8240 | n |
| | 14 | 16384 | 16432 | n |
| | 15 | 32768 | 18500 | 0.5n |
| | 16 | 65536 | 66820 | n |
| | 17 | 131072 | 84524 | 0.65n |
| | 18 | 262144 | 148004 | 0.5n |
| Generalized Tree Based Decoders (16, 4) | 7 | 128 | 68 | 0.5n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2084 | n |
| | 12 | 4096 | 4136 | n |
| | 13 | 8192 | 4624 | 0.5n |
| | 14 | 16384 | 15427 | < n |
| | 15 | 32768 | 33321 | n |
| | 16 | 65536 | 68105 | n |
| | 17 | 131072 | 73872 | 0.5n |
| | 18 | 262144 | 266920 | n |
| Generalized Tree Based Decoders (16, 8) | 7 | 128 | 132 | n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2072 | n |
| | 12 | 4096 | 2096 | 0.5n |
| | 13 | 8192 | 4624 | 0.5n |
| | 14 | 16384 | 15427 | < n |
| | 15 | 32768 | 33094 | n |
| | 16 | 65536 | 35337 | 0.5n |
| | 17 | 131072 | 73872 | 0.5n |
| | 18 | 262144 | 266920 | n |
| Generalized Tree Based Decoders (16, 16) | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1056 | 0.5n |
| | 12 | 4096 | 2096 | 0.5n |
| | 13 | 8192 | 8228 | n |
| | 14 | 16384 | 8256 | 0.5n |
| | 15 | 32768 | 16664 | 0.5n |
| | 16 | 65536 | 35336 | 0.5n |

| Hardware | Inputs | Outputs | Synthesis | Trend |
|--|--------|---------|-----------|--------|
| | | | LUTs | LUTs |
| | 17 | 131072 | 136456 | n |
| | 18 | 262144 | 235496 | < n |
| Generalized Tree Based Decoders (16, 32) | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1056 | 0.5n |
| | 12 | 4096 | 2096 | 0.5n |
| | 13 | 8192 | 8228 | n |
| | 14 | 16384 | 8256 | 0.5n |
| | 15 | 32768 | 16664 | 0.5n |
| | 16 | 65536 | 37128 | 0.5n |
| | 17 | 131072 | 136456 | n |
| | 18 | 262144 | 235496 | < n |
| Generalized Tree Based Decoders (16, 64) | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1056 | 0.5n |
| | 12 | 4096 | 2096 | 0.5n |
| | 13 | 8192 | 4624 | 0.5n |
| | 14 | 16384 | 8256 | 0.5n |
| | 15 | 32768 | 16664 | 0.5n |
| | 16 | 65536 | 37128 | 0.5n |
| | 17 | 131072 | 73992 | > 0.5n |
| | 18 | 262144 | 235496 | < n |
| Generalized Tree Based Decoders (32, 4) | 7 | 128 | 132 | n |
| | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 288 | 0.5n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1088 | 0.5n |
| | 12 | 4096 | 4136 | n |
| | 13 | 8192 | 8236 | n |
| | 14 | 16384 | 10384 | < n |
| | 15 | 32768 | 33224 | n |
| | 16 | 65536 | 66656 | n |
| | 17 | 131072 | 136224 | n |
| | 18 | 262144 | 275488 | n |
| Generalized Tree Based Decoders (32, 8) | 8 | 256 | 136 | 0.5n |
| | 9 | 512 | 288 | 0.5n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1088 | 0.5n |
| | 12 | 4096 | 4136 | n |
| | 13 | 8192 | 8224 | n |
| | 14 | 16384 | 10384 | < n |
| | 15 | 32768 | 33224 | n |
| | 16 | 65536 | 66206 | n |
| | 17 | 131072 | 70688 | > 0.5n |
| | 18 | 262144 | 271392 | n |
| Generalized Tree Based Decoders (32, 16) | 9 | 512 | 288 | 0.5n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1088 | 0.5n |
| | 12 | 4096 | 4136 | n |
| | 13 | 8192 | 8224 | n |
| | 14 | 16384 | 16448 | n |
| | 15 | 32768 | 29961 | < n |
| | 16 | 65536 | 33376 | 0.5n |
| | 17 | 131072 | 70688 | > 0.5n |
| | 18 | 262144 | 271392 | n |
| Generalized Tree Based Decoders (32, 32) | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 1088 | 0.5n |
| | 12 | 4096 | 4136 | n |
| | 13 | 8192 | 4160 | 0.5n |
| | 14 | 16384 | 16448 | n |
| | 15 | 32768 | 26372 | < n |
| | 16 | 65536 | 33376 | 0.5n |
| | 17 | 131072 | 74272 | > 0.5n |
| | 18 | 262144 | 148512 | 0.5n |
| | 11 | 2048 | 2076 | n |
| | 12 | 4096 | 4136 | n |

| Hardware | Inputs | Outputs | Synthesis <i>LUTs</i> | Trend <i>LUTs</i> |
|---|--------|---------|--------------------------|----------------------|
| Generalized Tree Based Decoders (32, 64) | 13 | 8192 | 4160 | 0.5n |
| | 14 | 16384 | 9088 | > 0.5n |
| | 15 | 32768 | 29572 | < n |
| | 16 | 65536 | 33376 | 0.5n |
| | 17 | 131072 | 74272 | > 0.5n |
| | 18 | 262144 | 148512 | 0.5n |
| Generalized Tree Based Decoders (64, 4) | 8 | 256 | 264 | n |
| | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2084 | n |
| | 12 | 4096 | 2084 | 0.5n |
| | 13 | 8192 | 8272 | n |
| | 14 | 16384 | 16432 | n |
| | 15 | 32768 | 32906 | n |
| | 16 | 65536 | 66630 | n |
| | 17 | 131072 | 133318 [2] | n |
| | 18 | 262144 | 272450 | n |
| Generalized Tree Based Decoders (64, 8) | 9 | 512 | 528 | n |
| | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2084 | n |
| | 12 | 4096 | 2084 | 0.5n |
| | 13 | 8192 | 8272 | n |
| | 14 | 16384 | 16432 | n |
| | 15 | 32768 | 32906 | n |
| | 16 | 65536 | 66630 | n |
| | 17 | 131072 | 132434 | n |
| | 18 | 262144 | 141378 | > 0.5n |
| Generalized Tree Based Decoders (64, 16) | 10 | 1024 | 1044 | n |
| | 11 | 2048 | 2084 | n |
| | 12 | 4096 | 2084 | 0.5n |
| | 13 | 8192 | 8272 | n |
| | 14 | 16384 | 16432 | n |
| | 15 | 32768 | 32906 | n |
| | 16 | 65536 | 62923 | < n |
| | 17 | 131072 | 67618 | 0.5n |
| | 18 | 262144 | 141346 | > 0.5n |
| Generalized Tree Based Decoders (64, 32) | 11 | 2048 | 2084 | n |
| | 12 | 4096 | 2084 | 0.5n |
| | 13 | 8192 | 8272 | n |
| | 14 | 16384 | 16432 | n |
| | 15 | 32768 | 32906 | n |
| | 16 | 65536 | 62923 | < n |
| | 17 | 131072 | 67618 | 0.5n |
| | 18 | 262144 | 148514 | > 0.5n |
| Generalized Tree Based Decoders (64, 64) | 12 | 4096 | 2084 | 0.5n |
| | 13 | 8192 | 8272 | n |
| | 14 | 16384 | 16432 | n |
| | 15 | 32768 | 32906 | n |
| | 16 | 65536 | 66095 | n |
| | 17 | 131072 | 67618 | 0.5n |
| | 18 | 262144 | 148514 | > 0.5n |
| Generalized Tree Based Decoders (128, 16) | 12 | 4096 | 2084 | 0.5n |
| | 13 | 8192 | 4136 | 0.5n |
| | 14 | 16384 | 16412 | n |
| | 15 | 32768 | 22238 | < n |
| | 16 | 65536 | 41539 | < n |
| | 17 | 131072 | 133764 | n |
| | 18 | 262144 | 264587 | n |
| Generalized Tree Based Decoders (128, 32) | 13 | 8192 | 4136 | 0.5n |
| | 14 | 16384 | 16412 | n |
| | 15 | 32768 | 22238 | < n |
| | 16 | 65536 | 38161 | < n |
| | 17 | 131072 | 132495 | n |
| | 18 | 262144 | 281220 | > n |
| | 13 | 8192 | 4136 | 0.5n |

| Hardware | Inputs | Outputs | Synthesis <i>LUTs</i> | Trend <i>LUTs</i> |
|---|--------|------------|--------------------------|----------------------|
| Generalized Tree Based Decoders (128, 64) | 14 | 16384 | 16412 | n |
| | 15 | 32768 | 22238 | < n |
| | 16 | 65536 | 38161 | > 0.5n |
| | 17 | 131072 | 132495 | n |
| | 18 | 262144 | 281220 | n |
| Generalized Tree Based Decoders (128, 128) | 14 | 16384 | 17028 | n |
| | 15 | 32768 | 22256 | < n |
| | 16 | 65536 | 38388 | > 0.5n |
| | 17 | 131072 | 129845 | < n |
| | 18 | 262144 | 281220 | n |
| Multi-Level Decoders (3GO) [3] | 9 | 512 | 528 | n |
| | 10 | 1024 | 1056 | n |
| | 11 | 2048 | 2112 | n |
| | 12 | 4096 | 2176 | 0.5n |
| | 13 | 8192 | 8264 | n |
| | 14 | 16384 | 16524 | n |
| | 15 | 32768 | 33064 | n |
| | 16 | 65536 | 65864 | n |
| | 17 | 131072 [4] | 131728 | n |
| | 18 | 262144 [5] | 132138 | 0.5n |
| Multi-Level Decoders (3FO) [6] | 9 | 512 | 528 | n |
| | 10 | 1024 | 1056 | n |
| | 11 | 2048 | 2112 | n |
| | 12 | 4096 | 2176 | 0.5n |
| | 13 | 8192 | 8264 | n |
| | 14 | 16384 | 16524 | n |
| | 15 | 32768 | 33064 | n |
| | 16 | 65536 | 65864 | n |
| | 17 | 131072 [7] | 131728 | n |
| | 18 | 262144 | 132138 [8] | 0.5n |
| Multi-Level Decoders (3GA) [9] | 9 | 512 | 528 | n |
| | 10 | 1024 | 1040 | n |
| | 11 | 2048 | 2072 | n |
| | 12 | 4096 | 4128 | n |
| | 13 | 8192 | 8240 | n |
| | 14 | 16384 | 16448 | n |
| | 15 | 32768 | 16480 | 0.5n |
| | 16 | 65536 | 67648 | n |
| | 17 | 131072 | 65792 | 0.5n |
| | 18 | 262144 | 132140 | 0.5n |
| Multi-Level Decoders (3FA) [10] | 9 | 512 | 528 | n |
| | 10 | 1024 | 1040 | n |
| | 11 | 2048 | 2072 | n |
| | 12 | 4096 | 4128 | n |
| | 13 | 8192 | 8240 | n |
| | 14 | 16384 | 16448 | n |
| | 15 | 32768 | 16480 | 0.5n |
| | 16 | 65536 | 67648 | n |
| | 17 | 131072 | 65776 | 0.5n |
| | 18 | 262144 | 132140 | 0.5n |
| Multi-Level Decoders (4GO) [11] | 9 | 512 | 528 | n |
| | 10 | 1024 | 1056 | n |
| | 11 | 2048 | 2112 | n |
| | 12 | 4096 | 2176 | 0.5n |
| | 13 | 8192 | 8264 | n |
| | 14 | 16384 | 16524 | n |
| | 15 | 32768 | 33064 | n |
| | 16 | 65536 | 65864 | n |
| | 17 | 131072 | 131728 | n |
| | 18 | 262144 | 144853 | > 0.5n |
| Multi-Level Decoders | 9 | 512 | 528 | n |
| | 10 | 1024 | 1056 | n |
| | 11 | 2048 | 2112 | n |
| | 12 | 4096 | 2176 | 0.5n |
| | 13 | 8192 | 8264 | n |

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[1] ~52 min synth time

[2] took like 22 minutes, why?

[3] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)

[4] ~40 min synth time

[5] ~40 min synth time

[6] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)

[7] ~35 min synth time

[8] may want to verify this was 138 and not 128

[9] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)

[10] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)

[11] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)

[12] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)

[13] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)

[14] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)

[15] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)

[16] Codes:

First number: [G_max_lvls]

Second letter: G (gate-level enabled) / F (function-based, gate-level disabled)

Third letter: A (cascaded) / O (composed)