

[0108] The methodology for building the LUT for three inputs to one output is disclosed further and taught here. For the three input variables as in the set of {ii, pp, qq}, each variable of which is a 2-tuple as in the set of {"", "01", "10", "11"}, there are 2 ^ 6 or 64-combinations possible, and typically indexed as in the inclusive interval range of [0, 63]. Of these 64-combinations, there are 14-combinations that do not include the value "", as presented in Table 1 for the 14-combinations excluding "".

| Connective No. | ((ii | & pp) | qq) | = kk |
|----------------|-------|-------|-----|------|
| 091 | 01 | 01 | 10 | 11 |
| 095 | 01 | 01 | 11 | 11 |
| 106 | 01 | 10 | 10 | 10 |
| 111 | 01 | 10 | 11 | 11 |
| 123 | 01 | 11 | 10 | 11 |
| 127 | 01 | 11 | 11 | 11 |
| 149 | 10 | 01 | 01 | 01 |
| 159 | 10 | 01 | 11 | 11 |
| 165 | 10 | 10 | 01 | 11 |
| 175 | 10 | 10 | 11 | 11 |
| 183 | 10 | 11 | 01 | 11 |
| 191 | 10 | 11 | 11 | 11 |
| 213 | 11 | 01 | 01 | 01 |
| 234 | 11 | 10 | 10 | 10 |

Table 1