Number of nodes in initial graph: 11811

Number of merged nodes in new graph: 1689

Number of edges in new graph: 168,517

**WHAT IS THE NUMBER OF SUBSPACES AND THE DEGREE OF THE MERGED NODES?**

|  |  |  |  |
| --- | --- | --- | --- |
| **Number of subspaces** | **Number of merged nodes with that many subspaces** | **Example of a space from such a node** | **Degree of such a node** |
| 7 | 2 | vec1: 0010111  vec2: 0101110  vec3: 1001011  vec4: 0111001  vec5: 1100101  vec6: 1011100  vec7: 1110010 | 30 |
| 28 | 2 | vec1: 0001011  vec2: 0010110  vec3: 0100111  vec4: 0011101  vec5: 0110001  vec6: 0101100  vec7: 0111010 | 114 |
| 35 | 2 | vec1: 0001011  vec2: 0010110  vec3: 1100010  vec4: 0011101  vec5: 1110100  vec6: 1101001  vec7: 1111111 | 142 |
| 42 | 63 | vec1: 0000001  vec2: 0000010  vec3: 0000100  vec4: 0000011  vec5: 0000110  vec6: 0000101  vec7: 0000111 | 21 nodes are 161  42 nodes are 163 |
| 49 | 1620 | vec1: 0000001  vec2: 0000010  vec3: 0001000  vec4: 0000011  vec5: 0001010  vec6: 0001001  vec7: 0001011 | 49 nodes are 185  35 nodes are 186  42 nodes are 187  56 nodes are 188  126 nodes are 193  840 nodes are 201  472 nodes are 210 |

\* The first three vectors in each space presented here form a basis