

## Listing 2: Bash script output with GCC 7.4.0 and gsl 2.4

M= 2, P= 0.242142	M= 2, P= 0.242142
Golomb encoding: 2249.681459 MB/s	Our encoding: 2449.642245 MB/s
Golomb decoding: 1507.446408 MB/s	Our decoding: 1935.759404 MB/s
Decode Succeed!	Decode Succeed!
M= 3, P= 0.179665	M= 3, P= 0.179665
Golomb encoding: 2289.703604 MB/s	Our encoding: 2477.340080 MB/s
Golomb decoding: 1601.421422 MB/s	Our decoding: 1684.144579 MB/s
Decode Succeed!	Decode Succeed!
M= 4, P= 0.142756	M= 4, P= 0.142756
Golomb encoding: 2119.826927 MB/s	Our encoding: 2530.930342 MB/s
Golomb decoding: 1496.227356 MB/s	Our decoding: 1696.855134 MB/s
Decode Succeed!	Decode Succeed!
M= 5, P= 0.118409	M= 5, P= 0.118409
Golomb encoding: 1351.930718 MB/s	Our encoding: 2606.440515 MB/s
Golomb decoding: 1369.358180 MB/s	Our decoding: 2201.436382 MB/s
Decode Succeed!	Decode Succeed!
M= 6, P= 0.101149	M= 6, P= 0.101149
Golomb encoding: 1468.880122 MB/s	Our encoding: 2490.703449 MB/s
Golomb decoding: 1268.345025 MB/s	Our decoding: 1969.659852 MB/s
Decode Succeed!	Decode Succeed!
M= 7, P= 0.088278	M= 7, P= 0.088278
Golomb encoding: 2136.148492 MB/s	Our encoding: 2147.883958 MB/s
Golomb decoding: 1440.156718 MB/s	Our decoding: 1654.475594 MB/s
Decode Succeed!	Decode Succeed!
M= 8, P= 0.078310	M= 8, P= 0.078310
Golomb encoding: 2191.699159 MB/s	Our encoding: 2484.245227 MB/s
Golomb decoding: 1518.580977 MB/s	Our decoding: 1738.493239 MB/s
Decode Succeed!	Decode Succeed!
M= 9, P= 0.070365	M= 9, P= 0.070365
Golomb encoding: 1563.718601 MB/s	Our encoding: 2369.827592 MB/s
Golomb decoding: 1559.791690 MB/s	Our decoding: 2143.361407 MB/s
Decode Succeed!	Decode Succeed!
M= 10, P= 0.063882	M= 10, P= 0.063882
Golomb encoding: 1436.167988 MB/s	Our encoding: 2417.987896 MB/s
Golomb decoding: 1473.986261 MB/s	Our decoding: 2055.452512 MB/s
Decode Succeed!	Decode Succeed!
M= 11, P= 0.058493	M= 11, P= 0.058493
Golomb encoding: 1216.328973 MB/s	Our encoding: 2392.449668 MB/s
Golomb decoding: 1231.995161 MB/s	Our decoding: 1829.652492 MB/s
Decode Succeed!	Decode Succeed!
M= 12, P= 0.053942	M= 12, P= 0.053942
Golomb encoding: 1854.088346 MB/s	Our encoding: 2318.094758 MB/s

Golomb decoding: 1428.132788 MB/s	Our decoding: 2048.645077 MB/s
Decode Succeed!	Decode Succeed!
M= 13, P= 0.050048	M= 13, P= 0.050048
Golomb encoding: 1531.207150 MB/s	Our encoding: 2292.310902 MB/s
Golomb decoding: 1415.258396 MB/s	Our decoding: 1729.408153 MB/s
Decode Succeed!	Decode Succeed!
M= 14, P= 0.046679	M= 14, P= 0.046679
Golomb encoding: 1555.453068 MB/s	Our encoding: 2255.062827 MB/s
Golomb decoding: 1418.477442 MB/s	Our decoding: 1840.142666 MB/s
Decode Succeed!	Decode Succeed!
M= 15, P= 0.043734	M= 15, P= 0.043734
Golomb encoding: 1484.171129 MB/s	Our encoding: 2252.682241 MB/s
Golomb decoding: 1358.508073 MB/s	Our decoding: 1612.442249 MB/s
Decode Succeed!	Decode Succeed!
M= 16, P= 0.041139	M= 16, P= 0.041139
Golomb encoding: 2084.746509 MB/s	Our encoding: 2140.608548 MB/s
Golomb decoding: 1456.900070 MB/s	Our decoding: 1661.098871 MB/s
Decode Succeed!	Decode Succeed!
M= 17, P= 0.038834	M= 17, P= 0.038834
Golomb encoding: 1865.444552 MB/s	Our encoding: 2480.617847 MB/s
Golomb decoding: 1541.427601 MB/s	Our decoding: 2428.599184 MB/s
Decode Succeed!	Decode Succeed!
M= 18, P= 0.036774	M= 18, P= 0.036774
Golomb encoding: 1574.156754 MB/s	Our encoding: 2413.246066 MB/s
Golomb decoding: 1526.853925 MB/s	Our decoding: 2290.764440 MB/s
Decode Succeed!	Decode Succeed!
M= 19, P= 0.034922	M= 19, P= 0.034922
Golomb encoding: 1500.364401 MB/s	Our encoding: 2413.310857 MB/s
Golomb decoding: 933.958728 MB/s	Our decoding: 1913.805547 MB/s
Decode Succeed!	Decode Succeed!
M= 20, P= 0.033247	M= 20, P= 0.033247
Golomb encoding: 1801.794091 MB/s	Our encoding: 2391.499177 MB/s
Golomb decoding: 1368.532678 MB/s	Our decoding: 2256.023724 MB/s
Decode Succeed!	Decode Succeed!
M= 21, P= 0.031725	M= 21, P= 0.031725
Golomb encoding: 1327.338850 MB/s	Our encoding: 2339.512375 MB/s
Golomb decoding: 711.831738 MB/s	Our decoding: 1877.843025 MB/s
Decode Succeed!	Decode Succeed!
M= 22, P= 0.030337	M= 22, P= 0.030337
Golomb encoding: 1201.740721 MB/s	Our encoding: 2336.777549 MB/s
Golomb decoding: 1437.856903 MB/s	Our decoding: 2120.938568 MB/s
Decode Succeed!	Decode Succeed!
M= 23, P= 0.029065	M= 23, P= 0.029065
Golomb encoding: 1235.315000 MB/s	Our encoding: 2296.018159 MB/s

Golomb decoding: 1413.649100 MB/s	Our decoding: 2068.564644 MB/s
Decode Succeed!	Decode Succeed!
M= 24, P= 0.027895	M= 24, P= 0.027895
Golomb encoding: 1802.264951 MB/s	Our encoding: 2260.708907 MB/s
Golomb decoding: 1299.248206 MB/s	Our decoding: 2043.934369 MB/s
Decode Succeed!	Decode Succeed!
M= 25, P= 0.026816	M= 25, P= 0.026816
Golomb encoding: 1442.186181 MB/s	Our encoding: 2228.509715 MB/s
Golomb decoding: 1313.546938 MB/s	Our decoding: 1709.697984 MB/s
Decode Succeed!	Decode Succeed!
M= 26, P= 0.025817	M= 26, P= 0.025817
Golomb encoding: 1500.867126 MB/s	Our encoding: 2231.589318 MB/s
Golomb decoding: 1385.726977 MB/s	Our decoding: 1930.920825 MB/s
Decode Succeed!	Decode Succeed!
M= 27, P= 0.024890	M= 27, P= 0.024890
Golomb encoding: 1540.349948 MB/s	Our encoding: 2211.661538 MB/s
Golomb decoding: 1352.850227 MB/s	Our decoding: 1729.735340 MB/s
Decode Succeed!	Decode Succeed!
M= 28, P= 0.024028	M= 28, P= 0.024028
Golomb encoding: 1536.046401 MB/s	Our encoding: 2208.523853 MB/s
Golomb decoding: 1358.688730 MB/s	Our decoding: 1846.473996 MB/s
Decode Succeed!	Decode Succeed!
M= 29, P= 0.023223	M= 29, P= 0.023223
Golomb encoding: 1531.728414 MB/s	Our encoding: 2196.873958 MB/s
Golomb decoding: 1328.984674 MB/s	Our decoding: 1806.472591 MB/s
Decode Succeed!	Decode Succeed!
M= 30, P= 0.022470	M= 30, P= 0.022470
Golomb encoding: 1520.673172 MB/s	Our encoding: 2204.713733 MB/s
Golomb decoding: 1319.535827 MB/s	Our decoding: 1708.439799 MB/s
Decode Succeed!	Decode Succeed!
M= 31, P= 0.021764	M= 31, P= 0.021764
Golomb encoding: 1396.540281 MB/s	Our encoding: 2201.442440 MB/s
Golomb decoding: 1298.976488 MB/s	Our decoding: 1569.213906 MB/s
Decode Succeed!	Decode Succeed!
M= 32, P= 0.021102	M= 32, P= 0.021102
Golomb encoding: 1935.990351 MB/s	Our encoding: 2173.588187 MB/s
Golomb decoding: 1394.212311 MB/s	Our decoding: 1581.419272 MB/s
Decode Succeed!	Decode Succeed!