

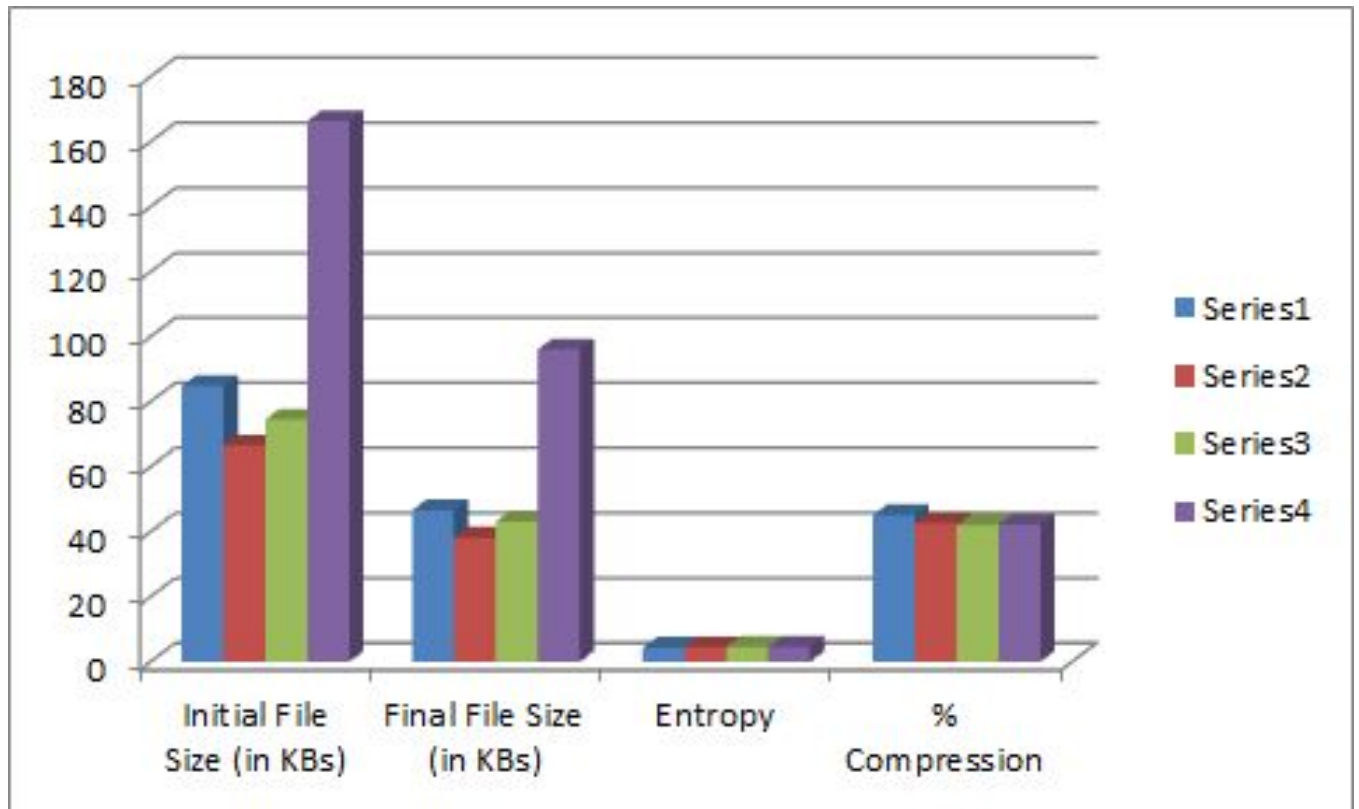
Assignment Report

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Huffman Encoding

Initial File Size (in KBs)	Final File Size (in KBs)	Entropy	% Compression
84.9	46.6	4.36015	45.11
66.6	38.2	4.52829	42.64
74.6	43.2	4.57287	42.09
166.4	96.1	4.56321	42.25



Transmission Data

Note:- Systematic **(7, 4) cyclic codes** with generating polynomial x^3+x^2+1 has been used for channel encoding. Each packet contains 7 bits. So, a total of 8 packets are sent at a time to make the total size a multiple of 8 bits (or a byte).

Error Probability	No. of packets sent	No. of errors in packets	No. of retransmissions
0.001	4776	37	30
0.005	97704	3399	2664
0.01	6510	521	363
0.02	205560	28698	16146

