|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Runtime to Compress (seconds)** | | | | |
| **File** | **LZW** | **Mod -n** | **Mod -r** | **Compress.exe** |
| All.tar |  | 9.83598 | 29.72625 | 0.16 |
| Assig2.doc |  | 0.41533 | 0.41129 | 0.04 |
| Bmps.tar |  | 22.80613 | 22.42693 | 0.06 |
| Code.txt |  | 0.28421 | 0.29220 | 0.04 |
| Code2.txt |  | 0.26319 | 0.25317 | 0.04 |
| Edit.exe |  | 1.25493 | 1.27494 | 0.07 |
| Frosty.jpg |  | 1.40098 | 1.54408 | ---------- |
| Gone\_fishing.bmp |  | 0.19814 | 0.22515 | 0.04 |
| Large.txt |  | 3.28959 | 4.48817 | 0.1 |
| Lego-big.gif |  | 1.32394 | 1.15982 | ---------- |
| Medium.txt |  | 0.19314 | 0.19314 | 0.04 |
| Texts.tar |  | 3.76766 | 5.03869 | 0.13 |
| Wacky.bmp |  | 19.53921 | 20.86679 | 0.04 |
| Winnt256.bmp |  | 1.00871 | 0.92066 | 0.05 |

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| --- | --- | --- | --- | --- |
| **Runtime to Decompress (seconds)** | | | | |
| **File** | **LZW** | **Mod -n** | **Mod -r** | **Compress.exe** |
| All.tar |  | 0.35025 | 0.47834 | 0.09 |
| Assig2.doc |  | 0.10909 | 0.10711 | 0.04 |
| Bmps.tar |  | 0.15409 | 0.15311 | 0.05 |
| Code.txt |  | 0.12014 | 0.11709 | 0.04 |
| Code2.txt |  | 0.10709 | 0.10409 | 0.04 |
| Edit.exe |  | 0.14411 | 0.14411 | 0.05 |
| Frosty.jpg |  | 0.13810 | 0.14016 | ----------- |
| Gone\_fishing.bmp |  | 0.10009 | 0.09807 | 0.03 |
| Large.txt |  | 0.23016 | 0.29220 | 0.06 |
| Lego-big.gif |  | 0.15311 | 0.13109 | ---------- |
| Medium.txt |  | 0.10407 | 0.10809 | 0.06 |
| Texts.tar |  | 0.22018 | 0.31522 | 0.08 |
| Wacky.bmp |  | 0.13110 | 0.12809 | 0.05 |
| Winnt256.bmp |  | 0.13810 | 0.12108 | 0.05 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Compression Ratio (new size as % of orig size)** | | | | |
| **File** | **LZW** | **Mod -n** | **Mod -r** | **Compress.exe** |
| All.tar |  | 60 | 39 | 39 |
| Assig2.doc |  | 46 | 46 | 46 |
| Bmps.tar |  | 8 | 8 | 7 |
| Code.txt |  | 35 | 35 | 34 |
| Code2.txt |  | 37 | 37 | 36 |
| Edit.exe |  | 66 | 65 | 64 |
| Frosty.jpg |  | 130 | 135 | ---------- |
| Gone\_fishing.bmp |  | 52 | 52 | 52 |
| Large.txt |  | 42 | 44 | 43 |
| Lego-big.gif |  | 131 | 131 | ---------- |
| Medium.txt |  | 51 | 51 | 50 |
| Texts.tar |  | 11 | 43 | 41 |
| Wacky.bmp |  | 0.4 | 0.4 | 0.4 |
| Winnt256.bmp |  | 40 | 40 | 40 |

* Note: Compress.exe refused to work on Frosty and Lego-big. I believe this is because their formats mean they were already more or less maximally compressed.