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| --- | --- |
| REGISTER | VALUE |
| $0 | Default 0 |
| $1 | Base memory address of Array |
| $2 | Int i |
| $3 | 4, used for incrementing address, do not delete |
| $4 | -1, used for finding absolute value, do not delete |
| $5 | Temp conditional for main loop (i<8) |
| $6 | Base address of current main Array[i] |
| $7 | Temp value used to increment and word align main Array[i] to extract RGB, also base address of Array[j] inside sub loop |
| $8 | Int j |
| $9 | Temp conditional for sub loop (j<i), also temp value to increment and word align Array[j], becomes total difference later in sub loop |
| $10 | Output of closest difference |
| $11 | Output of closest address |
| $12 | Output of closest address |
| $13 | Misasim closest difference |
| $14 | Misasim closest address |
| $15 | Misasim closest address |
| $16 | Blue value of Array[i] |
| $17 | Green value of Array[i] |
| $18 | Red value of Array[i] |
| $19 | Blue value of Array[j] |
| $20 | Green value of Array[j] |
| $21 | Red value of Array[j] |
| $22 | Blue difference in sub loop |
| $23 | Green difference in sub loop |
| $24 | Red difference in sub loop |
| $25 | Temp conditional value to see if differences are negative, temp conditional to see if current diff is less than previous established diff |
| $26 |  |
| $27 |  |
| $28 |  |
| $29 | Reserved value |
| $30 |  |
| $31 |  |