**Assignment 1 Report**

**Group #: 4**

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*Complete the tables below with your profiling information; use the v1 1730.mpg file. If you changed the gcc optimization flags for release configuration, please specify the employed settings.*

**Execution time in ms**

|  |  |  |
| --- | --- | --- |
|  | **ARM A9** | |
| **I-frame** | **P-frame** |
| **SD Read, one frame,**  **maximum** | **210** | **173** |
| **SD Read, one frame,**  **average** | **194** | **155** |
| **SD Read, one frame,**  **minimum** | **182** | **145** |
| **lossless, one frame, Y, maximum** | **26.0** | **14.9** |
| **lossless, one frame, Cb, maximum** | **15.2** | **5.52** |
| **lossless, one frame, Cr, maximum** | **14.6** | **4.94** |
| **lossless, one frame, Y, average** | **20.1** | **6.77** |
| **lossless, one frame, Cb, average** | **14.0** | **3.75** |
| **lossless, one frame, Cr, average** | **13.4** | **3.39** |
| **lossless, one frame, Y, minimum** | **15.4** | **2.75** |
| **lossless, one frame, Cb, minimum** | **13.0** | **2.80** |
| **lossless, one frame, Cr, minimum** | **12.9** | **2.81** |
| **idct, one color component of one frame** | **(assuming this is the average run time)**  **27.1** | |
| **ycbcr\_to\_rgb, one frame** | **(assuming this is the average run time)**  **47.6** | |
| **buff\_reg** | **(assuming this is the average run time)**  **2.86** | |

**Average application frame rate: 6**

**Output data size in bytes**

|  |  |  |
| --- | --- | --- |
|  | **Output** | |
| **I-frame** | **P-frame** |
| **SD Read, one frame,**  **maximum** | 16839296 | 16788736 |
| **SD Read, one frame,**  **average** | 16756378 | 16696183.98 |
| **SD Read, one frame,**  **minimum** | 16693376 | 16654388 |
| **lossless, one frame, Y** | **20** | |
| **lossless, one frame, Cb** | **20** | |
| **lossless, one frame, Cr** | **20** | |
| **idct, one color component of one frame** | **76** | |
| **ycbcr\_to\_rgb, one frame** | **43** | |