



第七届

全国大学生集成电路创新创业大赛

报告类型*: 算法测试报告

参赛杯赛*: 景嘉微杯

作品名称*: 一种 ARGB 数据无损压缩/解压单元

队伍编号*: CICC1709

团队名称*: 三三

图片名称	图像宽度	图像高度	图 片 大 小 (字 节)	压缩文件大小 (字 节)	压缩率
sample01.bmp	1920	1056	8,110,202	218,539	2.96%
sample02.bmp	1240	960	4,761,722	555,831	11.67%
sample03.bmp	1920	1080	8,294,522	2,834,055	34.17%
sample04.bmp	2496	1600	15,974,522	7,528,415	47.13%
sample05.bmp	3840	2160	33,177,722	13,208,369	39.81%
sample06.bmp	3840	2120	32,563,322	18,143,221	55.72%
sample07.bmp	1416	800	4,531,322	2,483,011	54.80%
sample08.bmp	3840	2160	33,177,722	18,525,218	55.84%
sample09.bmp	3840	2160	33,177,722	19,180,429	57.81%
sample10.bmp	4000	2000	32,000,122	9,922,759	31.01%
Sample11.bmp	3840	2160	33,177,722	8,352,017	25.17%
Sample12.bmp	3840	2160	33,177,722	14,226,628	42.88%
Sample13.bmp	3840	2160	33,177,722	18,744,766	56.50%
Sample14.bmp	3840	2160	33,177,722	9,452,790	28.49%
Sample15.bmp	3840	2096	32,194,682	17,032,352	52.90%
Sample16.bmp	3840	2160	33,177,722	9,989,200	30.11%
Sample17.bmp	3168	1440	18,247,802	7,017,753	38.46%
Sample18.bmp	3456	2160	29,859,962	6,759,722	22.64%
Sample19.bmp	2560	1440	14,745,722	6,722,326	45.59%
Sample20.bmp	2304	1440	13,271,162	5,195,711	39.15%
Sample21.bmp	2552	1432	14,617,978	2,365,418	16.18%
Sample22.bmp	2880	2632	30,320,762	2,746,134	9.06%
Sample23.bmp	3000	2000	24,000,122	3,904,113	16.27%
Sample24.bmp	2744	1616	17,737,338	2,384,317	13.44%
Sample25.bmp	2560	1440	14,745,722	7,493,215	50.82%
Sample26.bmp	2520	1568	15,805,562	10,136,068	64.13%
Sample27.bmp	1416	800	4,531,322	2,333,562	51.50%
Sample28.bmp	1920	1080	8,294,522	3,518,280	42.42%
Sample29.bmp	1920	1080	8,294,522	4,593,940	55.39%
Sample30.bmp	1920	1080	8,294,522	4,849,806	58.47%
Sample31.bmp	1920	1080	8,294,522	4,772,183	57.53%
Sample32.bmp	1920	1080	8,294,522	1,899,057	22.90%
Sample33.bmp	1920	1080	8,294,522	5,326,899	64.22%

对以上压缩率进行加权平均得到平均压缩率为 39.24%

其中对 sample01.bmp 压缩率最好为 2.96%，对 sample33.bmp 压缩率最差为 64.22%

该算法对重复性较高的图片具有较好的压缩率，对于重复性不高的图片也可以做到一半左右的压缩率。