

CALIFORNIA STATE SCIENCE FAIR 2003 PROJECT SUMMARY

Name(s)	Project Number
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	JIZIU
Project Title	
The HTH File Format	
Abstract	
Objectives/Goals	nta compression
encryption, color mapping, and is easy to interpret.	
Methods/Materials	
Materials. I gigmunz computer, Microsoft Visual C++ 0.0	
Method: Design the file format and write out the specification, write the demo application showcasing a use of the hth file format, benchmark the file format, and publish the results and source code on my	
school's webserver. The method for writing the demo application is somewhat complex and will not be	
discussed here (as it would easily pass the 2400 character limit).	
Public/private domain header files that were use include stdio.h, stdlib.h, iostream.h, gl.h, glu.h,	
windows.h, and math.h.	
The HTH File Format stores images using much less space than other formats, has encryption and color	
mapping, and is easy to read. It is also not computationally expensive to encode the images or read them. This is very beneficial when you are comparing it to other formats like IPEC which are extremely	
expensive in processing power.	
Conclusions/Discussion The HTH File Format is an excellent imaging solution, mainly for clip art imag	es RIF (Run-length)
encryption is a proven technique for saving space in images, and caesar encrypt	ion supports a simple,
effective, and scaleable encryption solution. Overall the HTH File Format is of format for the job	tentimes, the best file
format for the job.	
Summary Statement	
Producing the ultimate file format for storing two dimensional images.	
Help Received	
Jared Schiffman advised me on several theoretical topics concerning programming.	