

Grading:

Subject: Data and Image Compression

Day: 17 June 2014

L & P exam

Student:		
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Sheet of

1. Given the symbol-frequency distribution

$$\{(s,30),(a,5),(l,30),(d,5),(n,15),(y,20)\}$$

compute its Huffman encoding.

Note. Work on a piece of paper, draw a diagram showing the different steps, and explain your reasoning in detail.

2. Given the funtion

$$9(2\cos(2\pi x)^2 - \sin(3\pi x)^4)e^{-x^2/11}$$

on the interval [0,3.5], write a python program that computes its 2^{10} equal space sampling f, its third Haar transform g and its third Daub6 transform h. The program should also draw separate plots of f, g and h.

Note. Send the corresponding py file. Include appropriate comments.

The displayed data in 1 and 2 were different for each student.