

COMPUTER SCIENCE TRIPOS Part IA – 2015 – Paper 2

3 Operating Systems (IML)

- (a) What is an *access control list*? [4 marks]
- (b) What is a *capability* in the context of access control? [4 marks]
- (c) How is file access control in Unix implemented, and what simplifications are made over one of the general mechanisms you have described above? [6 marks]
- (d) What is the *principle of minimum privilege* and which approach, access control lists or capabilities, lends itself better to supporting a minimum privilege regime? [6 marks]