CSCI 4320 (Principles of Operating Systems), Fall 2003 Homework X

Assigned: December 9, 2003.

Due: December 16, 2003, at 5pm. Not accepted late.

Credit: Up to 20 extra credit points.

Note: The HTML version of this document may contain hyperlinks. In this version, hyperlinks are represented by showing both the link text, formatted <u>like this</u>, and the full URL as a footnote.

1 General instructions

Answer as many (or few) of the following questions as you like. (Notice, however, that you can receive at most 20 extra-credit points.) You may write out your answers by hand or using a word processor or other program, but please submit hard copy.

I am also open to the possibility of giving extra credit for other work — other problems from the textbook, a report on something course-related, etc. If you have an idea for such a project, let's negotiate (by e-mail or in person).

2 Questions about chapter 9 (Security)

- 1. (2 points) Answer question 2 on p. 667 of the textbook. Also describe what method you used to break the cipher.
- 2. (2 points) Answer question 6 on p. 667 of the textbook. (*Hint:* What are the odds of being able to guess the password if you know its length? if you don't?)
- 3. (2 points) Answer question 11 on p. 668 of the textbook.
- 4. (2 points) Answer question 16 on p. 668 of the textbook.
- 5. (2 points) Answer question 17 on p. 668 of the textbook.
- 6. (2 points) Answer question 25 on p. 669 of the textbook.
- 7. (2 points) Answer question 26 on p. 669 of the textbook. (Hint: Re-read the section on Trojan horses.)
- 8. (2 points) Answer question 28 on p. 669 of the textbook.

3 Questions about chapter 10 (UNIX and Linux)

- 1. (2 points) Answer question 4 on p. 758 of the textbook.
- 2. (2 points) Answer question 5 on p. 758 of the textbook.
- 3. (2 points) Answer question 6 on p. 758 of the textbook.
- 4. (2 points) Answer question 13 on p. 759 of the textbook.
- 5. (2 points) Answer question 15 on p. 759 of the textbook.
- 6. (2 points) Answer question 21 on p. 760 of the textbook.
- 7. (2 points) Answer question 23 on p. 760 of the textbook.
- 8. (2 points) Answer question 42 on p. 761 of the textbook.