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 like this, 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.