

系統程式

System Programming

<http://ecourse2.ccu.edu.tw/>

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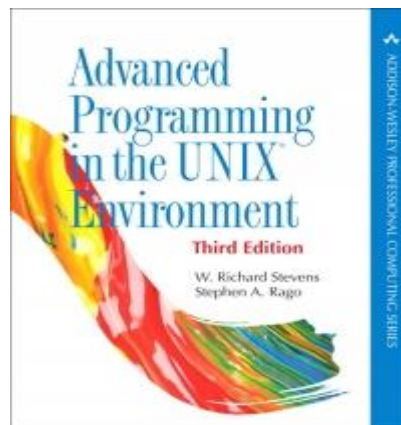
Class: 創新大樓 Innovation Building Room 341

Tel: (05)2720411 ext. 33119

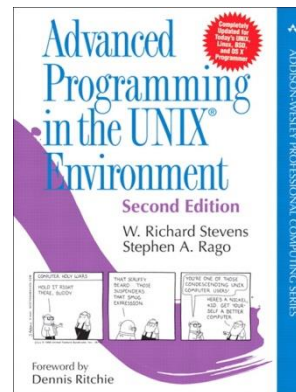
Office: EA-517

Text and Reference Books

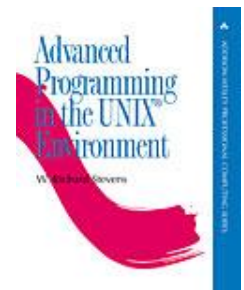
- Advanced Programming in the UNIX Environment, 3rd Edition, W. Richard Stevens, Stephen A. Rago, Addison Wesley, 2013, 開發代理 (994 pages), “APUE” in short



3rd Edition



2nd Edition



1st Edition

About Rich Stevens

- On Wikipedia:
 - http://en.wikipedia.org/wiki/W._Richard_Stevens
- Guru of the UNIX gurus
 - http://dir.salon.com/story/tech/feature/2000/09/01/rich_stevens/index.html
- Usenix Lifetime Achievement Award, 2000

About Rich Stevens

- Stevens set an example for everyone in the Unix world.
 - **What he didn't know, he determined to find out; what he did know, he strove to pass on to anyone who was interested.**
- In 2000, a year after his death,
 - memories of one of the Unix community's most beloved experts are still fresh and vital.

Syllabus

Topic	Chapter	Weeks
• Overview	1	1~3
• File I/O	3	4~5
• Files & Dirs	4	6~8
• Mid-Term Exam		9
• Stdio	5	10~11
• Process Env	7	12~13
• Process Control	8	14~15
• Signals	10	16~17
• Final Exam		18

Grading

- Online quiz (7 chapters) 14% (21%)
- Programming assignments (7) 35% (49%)
- Mid-Term Exam 25% (30%)
- Final Exam 26% (0%)
- Bonus (Q/A, quiz, **attendance**, ...)

Details

- **Midterm Exam:** 4/12 13:30~15:30
- **Final Exam:** 6/14 13:30~15:30
- **Programming Assignments (total 7)**
 - To be done individually
 - To be submitted in-class or after-class (within 1 week after class)
- **Online Quiz (total 7)**
 - To be done individually
 - To be submitted online

Rules

- **NO COPYING** of assignments/projects (a single case of copying → BOTH parties will get ZERO point for ALL assignments and projects)
- **NO CHEATING** in exams (BOTH parties will get ZERO points for that exam)

Rules (cont'd)

- Class Quiz:
 - Correct Answer → Bonus Points
 - Wrong or No Answer → Deduction Points
- Class Attendance:
 - 1 absence → Deduct 5%
 - 2 absences → Deduct 10%
 - n absences → Deduct 5n%

System Programming

ENJOY THE COURSE!!!

可以先做的事情 (預習)

- 使用一台有**Linux**作業系統的主機
 - 用你的帳密登入
 - 學會在系統中以下幾個指令：
 - 資料夾處理指令：`ls`, `rm`, `touch`, `chdir`, `mkdir`, `rmdir`, ...
 - 文件編輯指令：`vi` (`vim`), `joe`, ...
 - 程式編譯指令：`gcc`, `make`, ...
 - 學會製作 `makefile`
 - 3/1 在課堂上還會教大家Linux的基本操作