Institut for Matematik og Datalogi — November 30, 1999
Syddansk Universitet – Odense Universitet — JFB

DM19 – E99 – Lectures 25 and 26

Lectures, Week 47

We finished chapter 34 (omitting section 34.5) and the first two sections of chapter 35.

Lectures, Week 48

We will finish chapter 35 and begin on the notes on on-line algorithms. I expect to cover sections 1, 2, 8.1, and 9. If you don't have them, look at the announcement on the home page for this course.

Lectures, Week 49

We will finish the above mentioned sections on on-line algorithms.

Problems to be discussed in week 50

35.1-4, 35.2-1 (the intersections should all be at distinct points), 35.2-2, 35.2-4, 35.2-7, 35.3-5.

Show that LFU is not competitive for any $k \geq 3$. This means that for any function $f(k)$ and any constant a, there is a request sequence on which LFU has C_{LFU} faults, while an optimal off-line algorithm has C_{OPT} faults, and $CLFU > f(k) \cdot C_{OPT} + a$. LFU is defined as follows: For each page in the system, LFU keeps a counter keeping track of how many times the page is requested. When it is necessary to evict page, the page chosen has the smallest counter value. (If this smallest value is not unique, any of the pages with that smallest value may be chosen.)

Instruktorater

Hjælp dine medstuderende, dygtiggør dig selv og få penge for det. Søg i dag! Hvis du har spørgsmål, så find Studieudvalgets hjemmeside:

`http://www.imada.sdu.dk/Structure/StudiesCommittee/`

eller henvend dig til Kim Skak Larsen. Ansøgningsproceduren er beskrevet på hjemmesiden. Ansøgningsfrist: 16. december 1999 kl. 12:00.