

# Persistent Operating Systems

## Hauptseminar WS 2008/09

Raphael Neider

neider AT ira : uka ! de

October 27, 2008

## 1 Introduction

- Staff
- Organization
- Expectations
- Schedule

## 2 Paper

- General
- Understand
- Adapt
- Opinion

## 3 Slides

- General
- Contents
- Example
- Testrun

## 4 Talk

- Preparation
- Talk
- Time

# Supervisors

- Frank Bellosa  
eMail: bellosa AT ira : uka ! de  
Tel.: 608-3834  
Consulting time: Wed, 13:00–13:45h
- Raphael Neider  
eMail: neider AT ira : uka ! de  
Tel.: 608-2645  
Consulting time: Mon, 14:00–15:30h
- Philipp Kupferschmied  
eMail: pkupfer AT ira : uka ! de  
Tel.: 608-3836  
Consulting time: Wed, 15:30–17:00h

# Supervisors

- Frank Bellosa  
eMail: bellosa AT ira : uka ! de  
Tel.: 608-3834  
Consulting time: Wed, 13:00–13:45h
- Raphael Neider  
eMail: neider AT ira : uka ! de  
Tel.: 608-2645  
Consulting time: Mon, 14:00–15:30h
- Philipp Kupferschmied  
eMail: pkupfer AT ira : uka ! de  
Tel.: 608-3836  
Consulting time: Wed, 15:30–17:00h

# What is it all About?

- Insights on interesting problems
- Literacy on system architecture
- Practice presenting scientific papers
- Practice discussing scientific papers
- Practice writing technical reports

## Focus

This seminar is all about (orthogonal) persistence.

# Your Expectations

?

# Our Expectations

- You have high motivation for the topic
  - Preparation may include looking for support literature
- You will attend each talk
- You will participate in discussions

# Formalia

- One paper each
  - $\approx$  10 pages
- Presentation of the paper
  - 30–35 min.
- Evaluation report on the paper
  - Read and include related work if required



# Organization

- Talk preparation time:  $\geq 4$  weeks
  - Prepare a vivid talk
  - Incite lively discussion
  - Hand in slides a week before your talk
- First talks: in 5 weeks (2008-12-01)
- Technical reports / summary
  - Till the end of the term (2009-02-13)

# Intended Schedule

27.10. Introduction

---

03.11. —

10.11. —

17.11. —

24.11. —

---

01.12. 1./2. talk

08.12. 3./4. talk

15.12. 5./6. talk

22.12. *Christmas*

29.12. *Christmas*

05.01. *Christmas*

12.01. 7./8. talk

19.01. 9./10. talk

26.01. 11./12. talk

---

02.02. —

09.02. —

# How to Prepare for a Seminar Talk?

- Prepare in time
- Study deeply
  - Consult related work if required
- Explain your topic thoroughly and *didactically*
- Restrict your talk to required aspects
  - Rely on previous talks' contents

# General Approach to Giving the Talk

- 1 Understand the paper
- 2 Adapt it for presentation
- 3 Make slides
- 4 Perform dry runs

# Understand the Paper

- Understand the key points
  - What are the problems?
  - What are the proposed solutions?
- Take your audience into account
- Consult additional literature
  - If required for the presented paper

# Adapt the Paper

- Outline your talk in the beginning
- Summarize your paper in the end
- Give the *hows* and *whys* in between

## The Audience ...

- will forget most of the talk
- should still get your message

# Adapt the Paper

- Outline your talk in the beginning
- Summarize your paper in the end
- Give the *hows* and *whys* in between

## The Audience ...

- will forget most of the talk
- should still get your message

# Restructure the Paper

- Only present the key points
  - What is the new functionality good for?
  - Why is it better now?
  - How has it been improved?
- Do not go into detail
  - Details are confusing
  - Motivate to read the paper instead



# Common Pitfalls

- Do not present the paper from top to bottom
  - Paper is for the archives
  - Presentation is live
- Do not make presentation time proportional to your learning time for a given topic
  - Stress key points in the talk
  - Skip over hairy details

## Warning

Do not even think about breaking these rules ...

# Common Pitfalls

- Do not present the paper from top to bottom
  - Paper is for the archives
  - Presentation is live
- Do not make presentation time proportional to your learning time for a given topic
  - Stress key points in the talk
  - Skip over hairy details

## Warning

Do not even think about breaking these rules ...

# Own Opinion

- You will present someone else's work
- Get an opinion on your own
  - Do you agree?
  - Do you miss anything?
- Express your opinion in the talk
  - Mark it as such!

# Preparing the Slides

- Use electronic slides
- We can provide a laptop if required
  - Check up front for compatibility
- Show us your slides before the talk
  - Prevents common mistakes
  - Helps to have an interesting talk
- Arrive early for the presentation
  - Make sure the setup is working

# Slide Contents

- Do give slide numbers
  - Eases discussion afterwards
  - Helps audience to follow
- Use a large font size (> 20pt Arial)
- Do not clutter your slides
  - Only show important text
- Use keywords rather than sentences
  - Sentences distract audience from talk

## Warning

Do *not* use these slides as a template!

These are for reference purposes, yours are to support a live talk!

# Slide Contents

- Do give slide numbers
  - Eases discussion afterwards
  - Helps audience to follow
- Use a large font size (> 20pt Arial)
- Do not clutter your slides
  - Only show important text
- Use keywords rather than sentences
  - Sentences distract audience from talk

## Warning

Do *not* use these slides as a template!

These are for reference purposes, yours are to support a live talk!

# Slide Contents (2)

- Only one topic per slide
  - Leave slide half-empty
- More than one slide per topic is fine

# Visual Contents

- Make slides visually appealing
- Colors for emphasis are fine
  - Restrict use
  - Avoid certain colors
    - red on blue
    - pink and red
- Be consistent
  - Same color for same purpose
  - Same font for same purpose
  - Same layout for same purpose



# Pictures and Figures

# Pictures and Figures

- Avoid long lists

# Pictures and Figures

- Avoid long lists
- Use pictures

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms



# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences
- Do

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences
- Do **not**

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences
- Do **not** animate

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences
- Do **not** animate each

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences
- Do **not** animate each and

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences
- Do **not** animate each and every



# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences
- Do **not** animate each and every item

# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences
- Do **not** animate each and every item, please

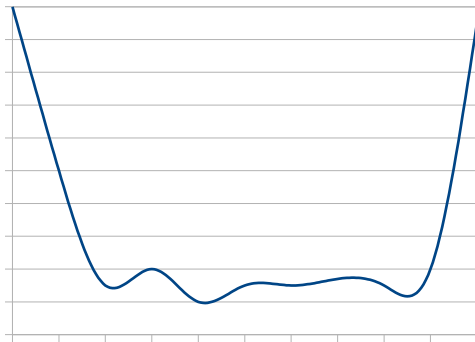
# Pictures and Figures

- Avoid long lists
- Use pictures
  - Make audience curious and awake
  - Good for structures
- Use animations (but scarcely!)
  - Good for algorithms/protocols/sequences
- Do **not** animate each and every item, please ...

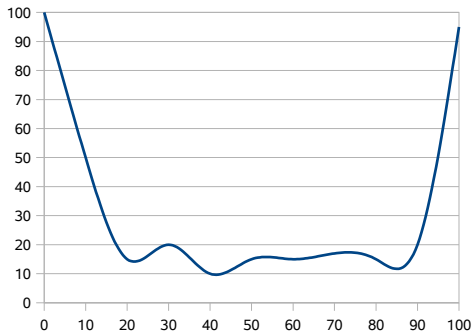
# Example Figure (really bad)

time [%]	alertness [%]
0	100
10	50
20	15
30	20
40	10
50	15
60	15
70	17
80	15
90	20
100	95

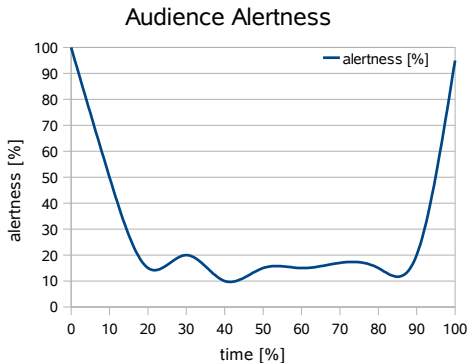
# Example Figure (still bad)



# Example Figure (bad)



# Example Figure (ok)



# Dry Run

- Perform a couple of dry runs
- Make sure you time them
  - About 2–3 minutes per slide
  - About 10–15 slides (< 20!)
  - Better cut it short than going over time
- Ask friends to be the audience
  - May find that all/most slides need modifications



# Memorizing

- Do not memorize the talk
- Do memorize the introduction
  - You are nervous at first
  - Allows for a smooth start
- Complicated parts are hard to explain
  - Improvising is difficult
  - Know *how* you want to convey them

# Attitude

- Be excited about the subject
- Something will go wrong
  - Don't panic
  - Audience is forgiving
  - Enjoy yourself

# Pointers and Pauses

- Use a pointing device
  - Avoid hiding the slides while pointing
- Let the slides sink in
  - Do not remove them too quickly
  - Do not start talking too early
- Take pauses during complicated parts

# Interaction with the Audience

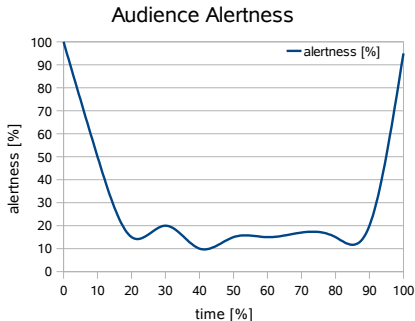
- Keep eye contact
- Encourage questions
  - Express the audience's interest
  - Help to follow your talk
- 'I don't know' is perfectly fine
  - Knowing is better still

# Presenting Numbers

- Explain the experiments
  - What is the setup?
  - What is its purpose?
- Present only a selection of the measurements
  - Too many numbers are hard to digest
  - Prefer graphs and pictures
- Explain the numbers
  - Do they serve their purpose?
  - How?
- Draw conclusions from the experiments

# Presenting Numbers

- Explain the experiments
  - What is the setup?
  - What is its purpose?
- Present only a selection of the measurements
  - Too many numbers are hard to digest
  - Prefer graphs and pictures
- Explain the numbers
  - Do they serve their purpose?
  - How?
- Draw conclusions from the experiments



# One Final Word

- Do *not* go over time
  - Puts you and your work in bad light
  - Be prepared to cut down your talk by several slides