Class Summary (Hind paper)

12-11-2001

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ssues

- Terminology - the literature has way to many ways of saying the same thing.
- Metrics - it is remarkably difficult to tell how good a given analysis really is.
- Reproduction of Results - repeating the results of others is apparently frowned on and not considered worth publishing. This probably exacerbates the previos two problems.

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pen ues i ns

- calability - different methods can have very different worst case times but even those aren t always accurate for real applications.
- !mproving " recision - not all analyses need to be that precise. There is also the #uestion of how much more precision benefits us in reality.

pen ues i ns (n)

- $ustomi%d &nalysis - how we answer the previous two #uestions depends on exactly what we are trying to do.
- ' low and $ontext ensitivity - what do they really gain for us and do we really need them all the time(
-) eap Modeling - this seems like something we really need to do especially with languages like *ava but it doesn t scale well.

pen ues i ns (n 2)

- Modeling &ggregates - how important is it to distinguish between the pieces of aggregates. That might depend on the language.
- +emand +riven &nalysis - don t do it until you need to.
- *ava and , , -s - little work has been done in this field so far.
- !ncomplete " rograms - conservative assumptions

e i es ! Class and " is ussi n

- This course was on what might seem like an esoteric sub.ect. +o you have some appreciation for why we care about it(
- / hat do you view as the main ob.ectives for pointer analysis in the next decade(
- , b.ectives - how well were they met(
  - 0ive you an introduction to pointer analysis.
  - ' orce you to read higher level papers and stretch your brains a bit.