Summary
A Survey of Adaptive Optimization in Virtual Machines
Venkatesan Packirisamy
April 25, 2005

1  To be completed before class

What are the problems solved by this paper? (50 words)
This paper gives a detailed review of the advances in adaptive optimization technology. It considers different classes of dynamic optimization techniques and show how they are useful. They quote examples both from academic research and industry. They try to show how the research done in the area of Virtual Machines (VM) has been useful in the actual industry.

What are the approaches attempted by this paper? (50 words)
First the paper defines some terminology to classify the different techniques. Then it presents a brief history of dynamic optimizations and virtual machines. Then the different classes of techniques are described - Selective optimization, feedback directed optimizations, feedback directed code generation. In each of these categories it details the different techniques that come under that category.

What are the main conclusions of this paper? (50 words)
The main aim of the paper is it to review all the work done in adaptive optimization technology. It shows that different academic research techniques are also very effective when applied to actual systems. The amount of research happening recently shows that many people now have the infrastructure and framework built.

2  To be completed after class

Did this paper address an important issue? Explain. (100 words)

Are the proposed approaches valid? Describe its strength and weakness. (100 words)

Do the results support the conclusions? Explain. (100 words)

Describe the potential future works? (100 words)