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Summer Semester 08
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Virtual Machines

Exercise Sheet 5

Deadline: 27 Mai 2008, during lecture, by email, or in room 02.07.041

Exercise 1:

5+5+10 Points

Compute $Code_V\ e\ \rho\ sd$ for the following values of e, with $\rho = \{\}$ and $sd = 0$. Annotate each instruction with the current stack distance.

a) Function application

```
let a = 50;
    f = fn x, y => x * y + a
in (f 10 20)
```

b) Undersupply

```
let a = 50;
    f = fn x, y => x * y + a;
    g = (f 10)
in (g 20); */
```

c) Oversupply

```
let a = 50;
    f = fn x => (fn y => x * y + a)
in (f 10 20)
```