# Implementation of a Virtual File System

Group 03

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## **Abstract**

The  $\mathit{Virtual}\ \mathit{File}\ \mathit{System}$  was implemented during the course  $\mathit{Java}\ \mathit{and}\ \mathit{C\#}\ \mathit{in}\ \mathit{depth}.$ 

This version of the document describes the project at the final state of milestone 1. and so on...

#### 1 The Full Model

After we did one more experiment that is explained in the appendix I could could examine the measured values and made some observations that are described in this section. Based on those observations I built the full model that will be the basis of a mean value analysis shown further in the document.

#### 1.1 Definitions

blablab

#### 1.2 Observations

This is a table (table 1) measured throughout the and a footnote  $^{1}$ 

N	$R_{puts}$	$R_{retrieves}$	$R_{meas}$	$X_{meas}$	$X_{calc}$	$R_{calc}$	$Z_{calc}$
32	69	112	181	176.5	176.8	181	0
64	72	113	185	344.7	345.9	186	1
96	81	115	196	486.4	489.8	197	1
128	98	119	217	586.8	589.9	218	1
160	124	130	254	628.3	629.9	255	1
192	161	156	317	603.9	605.7	318	1
224	213	204	417	536.4	537.2	418	1
256	251	230	481	531.2	532.2	482	1

Table 1: Measured (on client side) and calculated data of the whole system.

#### 1.3 The Model

and a figure 1. fancy foobar

 $<sup>^{1}\</sup>mathrm{Described}$  in the appendix  $\ref{eq:constraint}$ 

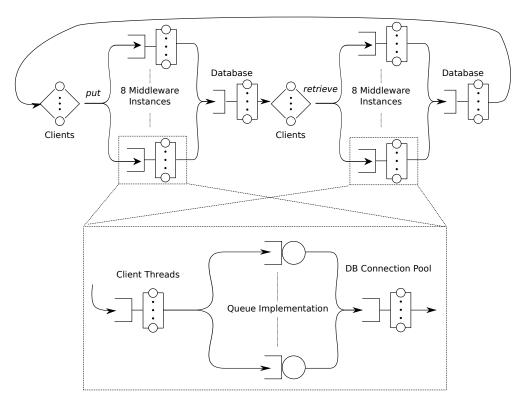


Figure 1: Full model of the system.

citation[1].

some math

$$\mu(n) = \left\{ \begin{array}{ll} n/S & \text{if } n=1,2,...,m-1 \\ m/S & \text{if } n=m,m+1,...,\infty \end{array} \right.$$

# 2 Glossary

**Virtual Disk** A virtual disk denotes a container file that is stored on the host file system. A virtual disk can be opened with the software that is developed during this project and stores the actual files. The file extension of the virtual disk is "\*.bfs".

# List of Figures

## **List of Tables**

1 Measured (on client side) and calculated data of the whole system. . . . 4

## References

[1] Raj Jain. The Art of Computer Systems Performance Analysis. John Wiley and Sons, Inc., 1991.