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Figures:

Virtual Plotting

Piet Hut, Jun Makino, Peter Teuben

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Preface

0.1 xxx

We thank xxx, xxx, and xxx for their comments on the manuscript. Piet Hut and Jun Makino $\,$

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Chapter 1

VPL interface specification

Version 0.00

P. Hut and J. Makino 24 Nov 2005

1.1 Overview

Currentl version of VPL defines a way to plot a two-dimentional array.

1.2 Class definition

1.2.1 Name

VirtualPlotter

1.2.2 Methods

VirtualPlotter#New(device)

Create a VirtualPlotter object. The device argument is a text string which specifies the device (and maybe device-dependent arguments such as PS filename as well).

VirtualPlotter#data(ar)

ar is two dimentional array of floating-point numbers. Returns self.

VirtualPlotter#plot

Plot the data specified by VirtualPlotter#data. In the current specification, aspect ratio of the plot area is 1:1. Coordinates are scaled automatically. Returns self.

1.3 Sample use

```
#!/usr/bin/env ruby
require "vpl"
a = open("sample.dat"){|x| x.gets(nil)}.collect{|x| x.split}
VirtualPlotter.new.data(a).plot
```

Sample data sample.dat would look like

- 0 0
- 1 2
- 2 4
- 3 9
- 4 16
- 5 25

1.4 Todo

More methods.

nil nil nil nil nil nil nil nil nil

Chapter 2

Literature References

[to be provided]