

# **NeXTSTEP Benchmark Suite**

## **Dhrystone 2.1**

This is the unmodified version 2.1 of Reinhold P. Weicker. It's run with 500'000 iterations and compiled with registers and -O2.

## **NXFactor 2.0**

NXFactor benchmarks the graphic functions of the NeXTSTEP Window Server. It's interesting how the different categories perform on different graphic and bus systems.

This is an artificial benchmark. It tests many different functions of the window server which all have the same weight for the calculation of the mean value.

All values are normalized to 'the' reference machine ± my old cube ± with the following configuration: 25MHz 68040/28M RAM/2 bit Grayscale Video. Similar machines should benchmark around the factor 1.

**Note:** The Graphics Benchmark depends a lot on window ordering. please command double click the app to ensure that the benchmarkwindow is the only window on screen. it's the only way to get meaningful results.

(BTW: I tried to do that automagically, but `[[Application workspace] hideOtherApplications]` does nothing :-( )

*Please mail all the results back. I will post a complete list.*

**Lines:**

10000 lines, 1 point thickness, variable color

PScode and other functions inside the loop:

```
sethsbcolor  
moveto  
lineto  
stroke  
flushwindow
```

### **Curves:**

2000 curves, 1 point thickness, variable color

PScode and other functions inside the loop:

```
sethsbcolor  
moveto  
curveto  
stroke  
flushwindow
```

**Fill:**

5000 random fills, 100x100 pixels, variable color

PScode and other functions inside the loop:

sethsbcolor  
rand(), rand()  
fill  
flushwindow

## **Transformations:**

150 scales, rotates and translates on a textstring

PScode and other functions inside the loop:

gsave  
sethsbcolor  
rand(), rand()

scale  
show  
rand()  
rotate  
show  
rand(), rand()  
translate  
show  
flushwindow

### **Composite:**

40000 composites, 100x100 pixels, op=NX\_COPY

PSCode and other functions inside the loop:

```
rand() (4 times)  
composite (4 times)  
flushwindow
```

### **Userpath:**

1 download, 2000 userpaths (a stroked diamond), variable color

PSCode and other functions inside the loop:

```
sethsbcolor  
moveto
```



```
douserpath  
flushwindow
```

**Text:**

5000 strings Õ 8 characters

PScode and other functions inside the loop:

```
sethsbcolor  
moveto  
rand() (8 times)  
show  
flushwindow
```

## **Window:**

10 main-loops

PScode and other functions inside the main-loop:

100 [window moveTo]'s

100 [window orderOut:]'s

100 [window orderFront:]'s