










Suprtool Master Class

- ◆ **A Robelle Tutorial
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What's Inside

	<u>Page</u>
 Suprtool in operations	4
 Delete is an input operation	6
 Suprtool and the HFS	7
 Jumbo databases	8
 Results of the 1994 User Survey	9
 New features since version 3.7	11
 Importing data	14
 Porting Suprtool to the UNIX	16
 Summary: class feedback	18

Warm-up project

■ Suprtool in operations

■ How to skip the backup on holidays?

■ Assume a file contains dates to skip

■ How to get today's date in a format you can use?

■ How to check today's date against the Date file?

■ How to tell Suprtool the format of the Date file?

1992						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Suprtool in operations: verifying the job queue

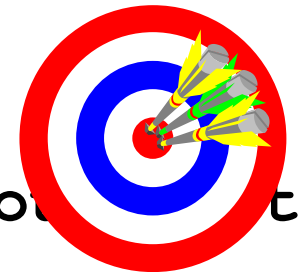
- ❑ Certain background jobs should always be running
 - ❑ Mail transport
 - ❑ Spooler
 - ❑ Transaction posters
- ❑ How can we alert the System Manager if jobs are missing?
- ❑ 3 steps required:
 - ❑ Create a list of running jobs
 - ❑ Compare the list against a control file
 - ❑ Notify System Manager

Step 2: Compare the current jobs against a target list

```
>input jcontrol {the file of desired job names}
>define jobname,1,30,byte
>table current,jobname,file,exec {file from previous slide}
>if not $lookup(current,jobname)
>extract jobname
>output notexec,temp
>exit
```

Step 3: Notify System Manager

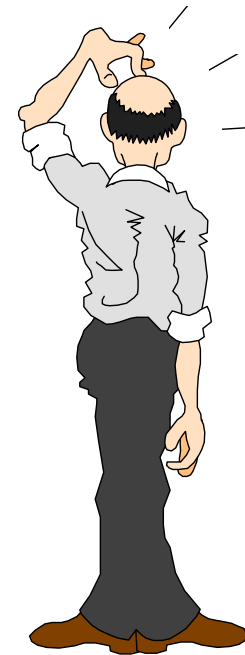
```
0 then
comment alert the System Manager
:if suprtoolout >
{error!}
```



What does this Suprtool task do?

```
>base test.db  
>get custmaster  
>sort custnumber  
>duplicate only keys  
>delete  
>output dupkeys  
>xeq  
>exit
```

 Hint: DELETE is an input operation.



Suprtool and the hierarchical file system (HFS)

▣ HFS filenames work in 3.7, but the maximum length is 36 characters

▣ 3.7.11 increases the maximum length to 239 characters

```
>input /SOMEACCT/SOMEGRP/somedir/some_file_in_my_space
```

```
>output ./results/file1x
```

```
>form ./linkfile
```

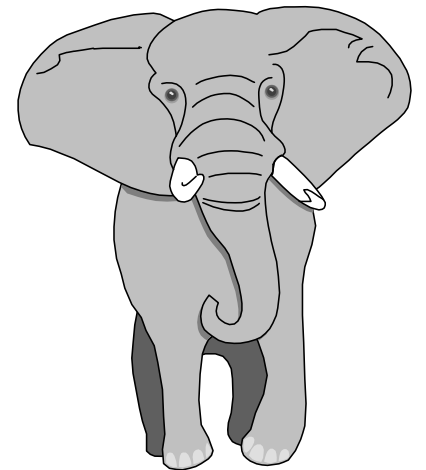
```
>listredo all;out ./redofile
```

```
>table cust-tbl,cust-no,file,./customertablefile
```

```
>use ./stcmds
```

Jumbo databases

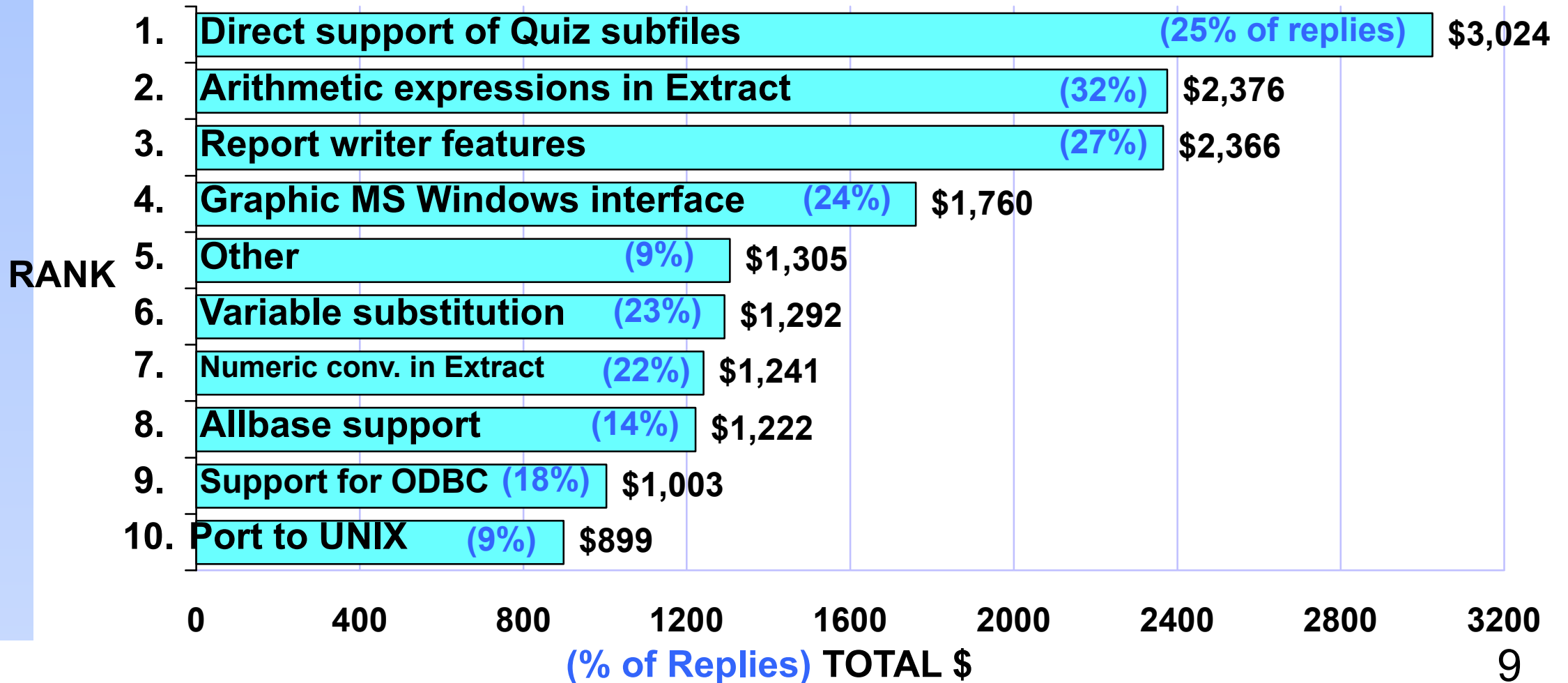
- TurboIMAGE now supports datasets greater than 4 gigabytes
- You need a special version of Suprtool 3.7 (Plus)
 - No extra charge for Suprtool/Plus
 - Alternatively, you can wait for Suprtool 3.8
- Can you sort more than 4 gigabytes?
- Can you output more than 4 gigabytes?



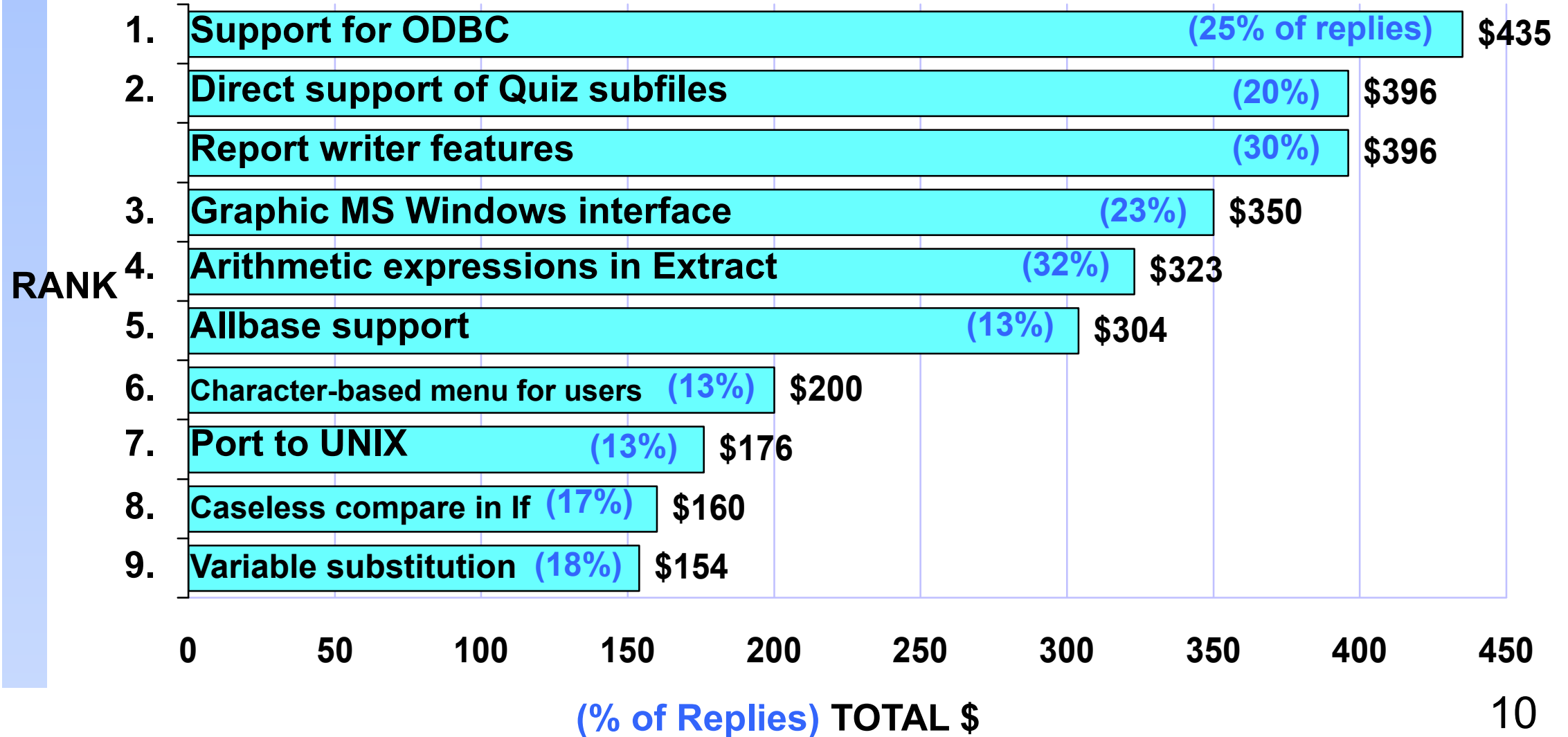
1994 Suprtool User Survey

North American results

How you spent your \$100 on enhancements:



How overseas users rated the enhancements



Arithmetic expressions in Extract (3.7.12)

■ Create computed fields for the output phase

■ EXTRACT <field-name> = <expression>

```
>extract double-field = int-field + 10
```

```
>extract total-cost = unit-cost * sales-qty
```

■ Must be last item in each EXTRACT command

■ SET IGNORE ON ignores divide by zero

Numeric data conversion in Extract (3.7.12)

■ Convert from any numeric data-type to another

■ Syntax:

```
EXTRACT <target-field> = <source-field>
```

■ Use DEFINE to create new output fields of specified type

```
>get cust-master
```

```
>define custno-j2,1,4,int {create J2 output field}
```

```
>define custno-in,cust-no,8,display {make X8 numeric}
```

```
>extract custno-j2 = custno-in
```

Shorten or lengthen byte type fields (3.7.12)

Syntax:

```
EXTRACT <target-field> = <source-field>
```

Example:

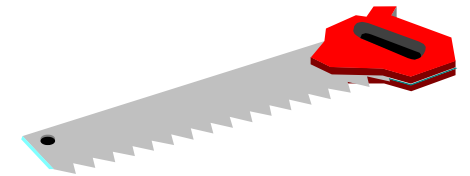
```
>get d-sales
```

```
>define part-warehouse-no,part-no[5],4
```

```
>extract warehouse-no = part-warehouse-no
```

```
>update
```

```
>xex
```



New opportunities for importing data

 OUTPUT writes to a file, PUT writes to a dataset

 Enhancements to EXTRACT will convert input format

```
>input flatfile
>define in-key-item,1,6
>define in-packed-qty,7,5,packed
>define put-integer-qty,7,4,integer
>define ...
>extract in-key-item
>extract put-integer-qty=in-packed-field
>extract ...
>put detail-set
>xeq
```

Importing data with Suprtool

- Converting variable-delimited data to fixed column
(see Qedit Master Class)
- Data conversions in EXTRACT
 - Numeric to numeric only version 3.7.12 or higher
- Writing new records into the database
 - PUT command - output record must match dataset full field list
 - EXTRACT command
 - dummy fields = " " or = 0 to fill out new records

Porting Suprtool to HP-UX

- Fast read and sort of fixed-length records
- Watch out for line feeds - they can drive you crazy
- Syntax to specify record length, and line feed separators
- Self-describing files are like portable datasets
 - Retain structure on FTP from MPE to HP-UX
 - Input and output SD files
 - Create SD files using DEFINE and EXTRACT

What database should Suprtool/UX support first?

Please give a show of hands:

Allbase?

Oracle?

Other?

What is more important?

High-speed for a single, specific database

or

Flexibility and SQL access to many databases



What you learned in Suprtool Master Class

- ☐ Operations staff should be learning Suprtool
- ☐ DELETE is an input operation, not output
- ☐ Suprtool is up to date with MPE and IMAGE, even HP-UX
- ☐ Read/write Quiz subfiles is the most popular enhancement choice
- ☐ Enhancements in beta release make it easier to import files