

[7.29] Table of *getConfig()* list elements

The *getConfig()* function can be useful in programs when you need to determine system information. For example, you might want to check the free RAM before creating a large variable, or you may want to check the amount of archive memory available, before your program archives a large variable. This type of information is easily extracted from the list that *getConfig()* returns. For example, if no certificates have been installed, then the free RAM in bytes is returned by `getConfig()[20]`. The table below simply shows the indices for the list, since this information is not explicitly listed in the user's manual.

| Index | No certificates installed: | Certificates installed: |
|-------|---------------------------------|---------------------------------|
| 1 | "Product Name" | "Product Name" |
| 2 | "Advanced Mathematics Software" | "Advanced Mathematics Software" |
| 3 | "Version" | "Version" |
| 4 | "2.05, 07/05/2000" | "2.05, 07/05/2000" |
| 5 | "Product ID" | "Product ID" |
| 6 | "01-1-9-4C" | "01-1-9-4C" |
| 7 | "ID #" | "ID #" |
| 8 | "011DC 9FC31 D63A" | "011DC 9FC31 D63A" |
| 9 | "Screen Width" | "Cert. Rev. #" |
| 10 | 240 | 0 |
| 11 | "Screen Height" | "Screen Width" |
| 12 | 128 | 240 |
| 13 | "Window Width" | "Screen Height" |
| 14 | 240 | 128 |
| 15 | "Window Height" | "Window Width" |
| 16 | 91 | 240 |
| 17 | "RAM Size" | "Window Height" |
| 18 | 262,132 | 91 |
| 19 | "Free RAM" | "RAM Size" |
| 20 | 183,044 | 262,132 |
| 21 | "Archive Size" | "Free RAM" |
| 22 | 655,360 | 183,044 |
| 23 | "Free Archive" | "Archive Size" |
| 24 | 583,348 | 655,360 |
| 25 | | "Free Archive" |
| 26 | | 583,348 |

Beginning at index 9 the indices differ, depending on whether or not any flash applications have been installed. You can determine if certificates have been installed by testing the dimension of the list returned by *getConfig()*. If the dimension is 24, no certificates are installed. As an example, consider this expression which returns the number of free archive bytes, with or without certificates:

```
when(dim(getConfig())=24,getConfig()[24],getConfig()[26])
```

If your program needs one of the first 8 parameters (Product Name through ID#), you need not determine if certificates are installed, since the indices for those parameters are the same in either case. If your programs needs one of the parameters after the Cert. Rev # parameter, you can get it by calculating the index offset from the end of the list. For example, if your program needs the screen width, this expression will return it:

```
getConfig()[dim(getConfig())-14]
```

If no certificate is installed the calculated index is 10; if certificates are present, the index is 12; in either case the index points to the screen width.