

# SAS® GLOBAL FORUM 2017

April 2 – 5 | Orlando, FL

## Tracking SAS Licensed product usage

USERS PROGRAM





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Victor L. Andruskevitch and Ankur Patel

## ABSTRACT

This paper offers a methodology for tracking who is using your licensed SAS products and which products are being used. Knowing how often each product is used will help your organization determine the number of SAS product licenses needed. The source code included in this paper is Linux specific but can easily be modified to run on the Windows platform. Once you have identified which products are being used profiling production jobs can be done to help allocate resources in your environment.

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## METHODS

SAS has provided us with three utilities which when used together will help us determine if and when our SAS licensed products are used. The first utility is the `sas.tools.viewregistry.jar`. This utility is intended to determine what products are installed at your location and what hotfixes are needed. As a result of executing this utility you will find a file named `DeploymentRegistry.html`. Within that file are entries for every product installed on your servers. Those entries will resemble the following:

Host: lax	
Product Code: tmine	
Version: 14.1	
Display Name: SAS Text Miner	
Display Version: 14.1	

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From this entry the fields of interest are “Product Code” and “Display Name”. We will use this information later when we provide the program code to record our product usage. The second utility of interest is RTRACE. We will want to enable this utility in our workspace and stored process server sasv9\_usermods.cfg files. Adding the options to turn on RTRACE logging which produces log files for every file accessed by your users program during execution. Those options should be as follows.

```
-RTRACE ALL
```

```
-RTRACELOC “/path to your log storage location/PID%p_DATE%d:%t.log”
```

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The last SAS utility we use is the tslv function. This utility returns the metadata information about each SAS executable that SAS provides in the installation media. In order to return the requested information the tslv function requires a first argument of the executable name without the extension and a second argument that specifies the option.

Options:

- A - Track Additional
- D – Port Date
- E – Number of Seconds since Jan 1, 1970
- H – Hotfix
- I – Description
- M – Maintenance
- P – Product Number (This will correspond to your product code)
- T – Track Look through

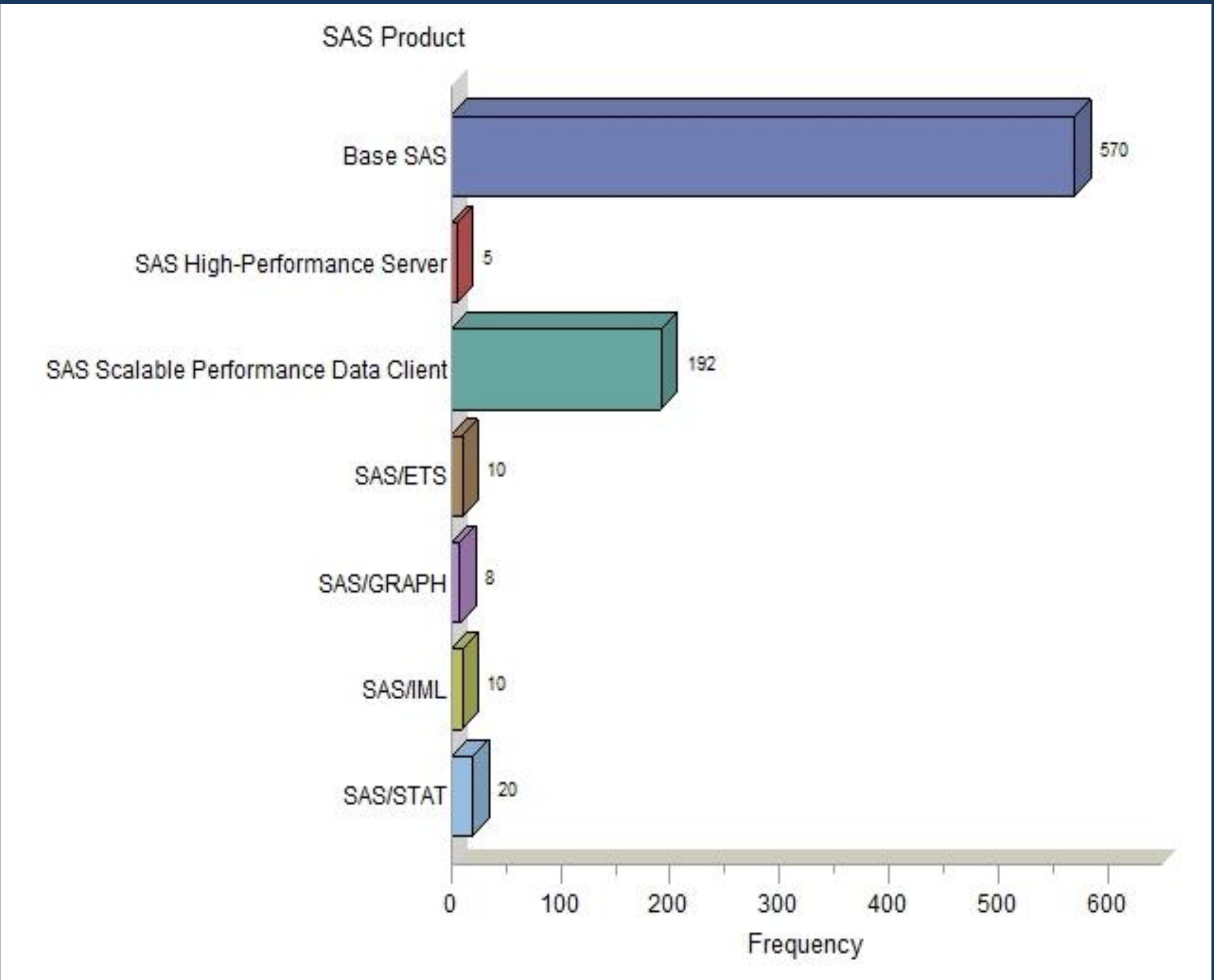
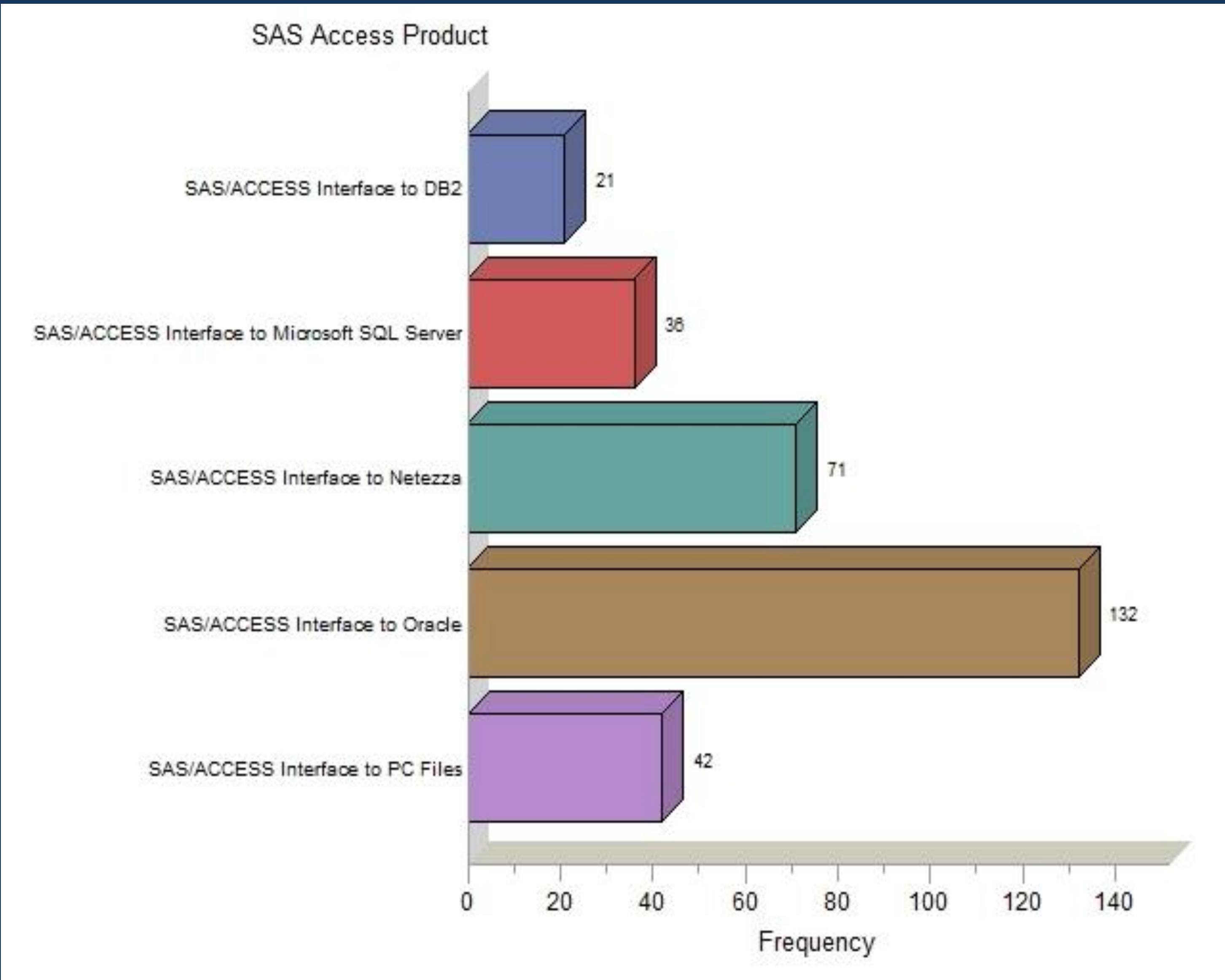


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## RESULTS

Once your rtrace logs files have been parsed and a historical dataset has been created you will be able to use the provided source code to generate reports and graphs detailing your users product usage.



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## CONCLUSION

The methodology I have outlined should afford you the opportunity to audit your organizations SAS product usage. At least you will be able to tell your manager what products are being used and if necessary by who. I hope you find this program useful.

**Caution:** The datetime stamps do not reflect actual SAS product usage duration, they only indicate user's session duration.

## ACKNOWLEDGEMENTS

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