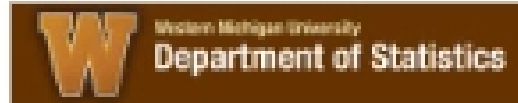


SAS and DDE

JC Wang



What is DDE?

DDE, Dynamic Data Exchange, is a built-in protocol in Microsoft Windows that allows applications to share data (chat among applications, that is)



Use DDE with Excel in SAS

- ▶ can dump SAS data directly into cells in Excel
- ▶ can easily format cells (colors, fonts, outlines, etc)
- ▶ can write formulas to cells
- ▶ can create/kick off macros from within SAS
- ▶ can issue system commands such as saving workbook to files, rename worksheets, etc.



SUGI Papers

Besides SAS help documentation for Windows, many SUGI papers covered this topic, two important ones:

- ▶ “Using Dynamic Data Exchange to Export Your SAS Data to MS Excel — Against All ODS, Part I —” SUGI 26 (Paper 11-26) by Koen Vyverman.
- ▶ “Creating Custom Excel Workbooks from Base SAS with Dynamic Data Exchange: A Complete Walkthrough” SUGI 27 (Paper 190-27) by Koen Vyverman.



Using DDE

Prerequisite for using DDE: both client and server applications are up and running. A client/server DDE communication link is initiated by means of a special form of the SAS *filename* statement in two ways:

- ▶ **DDE triplet:**

```
FILENAME fileref DDE '<server app>|<topic>!<item>';
```

- ▶ **DDE 'doublet':**

```
FILENAME fileref DDE '<server app>|system';
```



DDE Triplet Example

- ▶ <server app> = excel
- ▶ <topic> = [myXcel.xlsx]sheet1, [myXcel.xlsx]my data sheet
- ▶ <item> = r1c1:r10c3

