World City Gross Network Connectivity Calculator

Rolee Aranya, June 2006

PC use only (Not tested for Macs)

Maximum Number of Cities = 1100 Maximum Number of Firms = 255

Instructions

- Download the File Connectivity_macro to your Desktop. The file size is about 19.9 MB so you will need to have a high speed broadband internet connection to download it.
- 2. Open MS EXCEL
- 3. Paste your data set into a blank workbook. Do not use your original data file. The data should be entered in the following format only:
 - Cities in column A, the first city name must be in cell A2
 - Firms in row 1, the first service name must be in cell B1
 - The maximum limit of data is till cell IV1101 i.e. 255 firms and 1100 cities
 - Do not name the worksheet differently and retain the default names such as Sheet1, Sheet 2 etc.
 - Data should only be pasted on the Sheet 1. All other data on different Sheets will be deleted.
 - Do not leave blank rows in the data because this will give incorrect calculation of the Gross Connectivity.

The worksheet below shows a sample data set.

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1		Firm 1	Firm 2	Firm 3	Firm 4	Firm 5	Firm 6	Firm 7	Firm 8	Firm 9	Firm 10		
2	City 1	1	2	1	2	1	2	1	2	1	2		
3	City 2	2	3	2	3	2	3	2	3	2	3		
4	City 3	0	2	0	2	0	2	0	2	0	2		
5	City 4	3	2	3	2	3	2	3	2	3	2		
6	City 5	2	2	2	2	2	2	2	2	2	2		
7	City 6	4	1	4	1	4	1	4	1	4	1		
8	City 7	6	1	5	1	5	1	6	1	5	1		
9	City 8	0	4	0	4	0	4	0	4	0	4		
10	City 9	0	5	0	6	0	5	0	5	0	6		
11	City 10	1	1	1	1	1	1	1	1	1	1		
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- 4. Go to <File> and select <Open>. Find desktop and select file **Connectivity_macro**. Click to open the file.
- 5. A warning dialog box will appear which will ask if you want to Disable or Enable macros in the downloaded file. Select **Enable macros**.
- 6. Do not change anything in the opened file and return to the workbook containing your data. Keep the file **Connectivity_macro** open in the background.
- 7. Go to <Tools>, then <macro> and select <macros>
- 8. A macro dialog box will open. In the list of macros select Connectivity_macro.xls!Macro1
- 9. Once selected click on <Run> command on the right hand side of the dialog box
- 10. The macro will run by itself and give you a renamed **<Output>** Worksheet which will display the Gross Network Connectivities against the names of the cities. There will be two more worksheets i.e. **<Data>** and **<Calculations>**. The 'Data' sheet will contain your original data, the 'Calculations' sheet will have firm specific connectivities for each city which are summed for the Gross Connectivity in the **<Output>** sheet.
- 11. Copy the output into another file for further analysis. Save this file into your local directories for reference only.
- 12. The output will show a list of zeros below the list of cities for which you have data because it is programmed to calculate connectivities for 1100 cities. Ignore the zeros below your list of cities and copy the results into another file.
- 13. Close the **Connectivity_macro** file without saving changes.
- 14. Save the ouput file by a name of your choice.