

4.19 Graph1. XLS File

This file is included as an original file in the energy data base, however, it is also left as a user creation file. Graph1.XLS file is installed as a file which has direct linkage function with Energy_Case_01.XLS, Energy_Case_02.XLS, Energy_Case_03.XLS and Case_Simulation.XLS. Therefore, by accessing all these three files and Graph1.XLS file, operators of this system are able to access and create graphics whatever the operators wish to identify the trends and movements of macro economic data and energy data. Since this file is directly linked with above mentioned three files, it will be changed automatically when any changed being made in the three files.

(Refer to Screen 091)

All sheets included in Graph1.XLS file are Sec.Con1, Sec.Con2, Sec.Con3, TTLCase1, TTLCase2, TTLCase3, Inl.Enrgy, Inl.Enrgy,bunkers, TTL.Ele, linegraph1, linegraph2, and fuelinp.ele.gene. Descriptions of each sheet are followings:

(1) Sec.Con1

(Refer to Screen 092)

This sheet is linked with Energy_Case_01.XLS file and refers to TOE based energy consumption by each industry sector in base case.

(2) Sec.Con2

(Refer to Screen 093)

This sheet is linked with Energy_Case_02.XLS file and refers to TOE based energy consumption by each industry sector in the high case.

(3) Sec.Con3

(Refer to Screen 094)

This sheet is linked with Energy_Case_03.XLS file and refers to TOE based energy consumption by each industry sector in low case.

(4) TTLCase1

(Refer to Screen 095)

This sheet is linked with Energy_Case_01.XLS file and refers to MWh based electricity consumption by each industry sector in base case.

(5) TTLCase2

(Refer to Screen 096)

This sheet is linked with Energy_Case_02.XLS file and refers to MWh based energy consumption by each industry sector in high case.

(6) TTLCase3

(Refer to Screen 097)

This sheet is linked with Energy_Case_03.XLS file and refers to MWh based energy consumption by each industry sector in low case.

(7) Inl.Enrgy

(Refer to Screen 098)

This sheet is linked with Energy_Case_01.XLS, Energy_Case_02.XLS, and Energy_Case_03.XLS file and refers to TOE based inland energy consumption by each sector in base, high, and low cases.

(8) Inl.Energy,bunkers

(Refer to Screen 099)

This sheet is linked with Energy_Case_01.XLS, Energy_Case_02.XLS, and Energy_Case_03.XLS file and refers to TOE based inland energy consumption included bunkers by each sector in base, high, and low cases.

(9) TTL.Ele

(Refer to Screen 100)

This sheet is linked with Energy_Case_01.XLS, Energy_Case_02.XLS, and Energy_Case_03.XLS file and refers to MWh based total electricity consumption by sector in base, high, and low cases.

(10) linegraph1

(Refer to Screen 101)

This sheet is linked with Base_Case.XLS, and Case_Simulation.XLS and refers to comparative graph of total electricity consumption.

(11) linegraph2

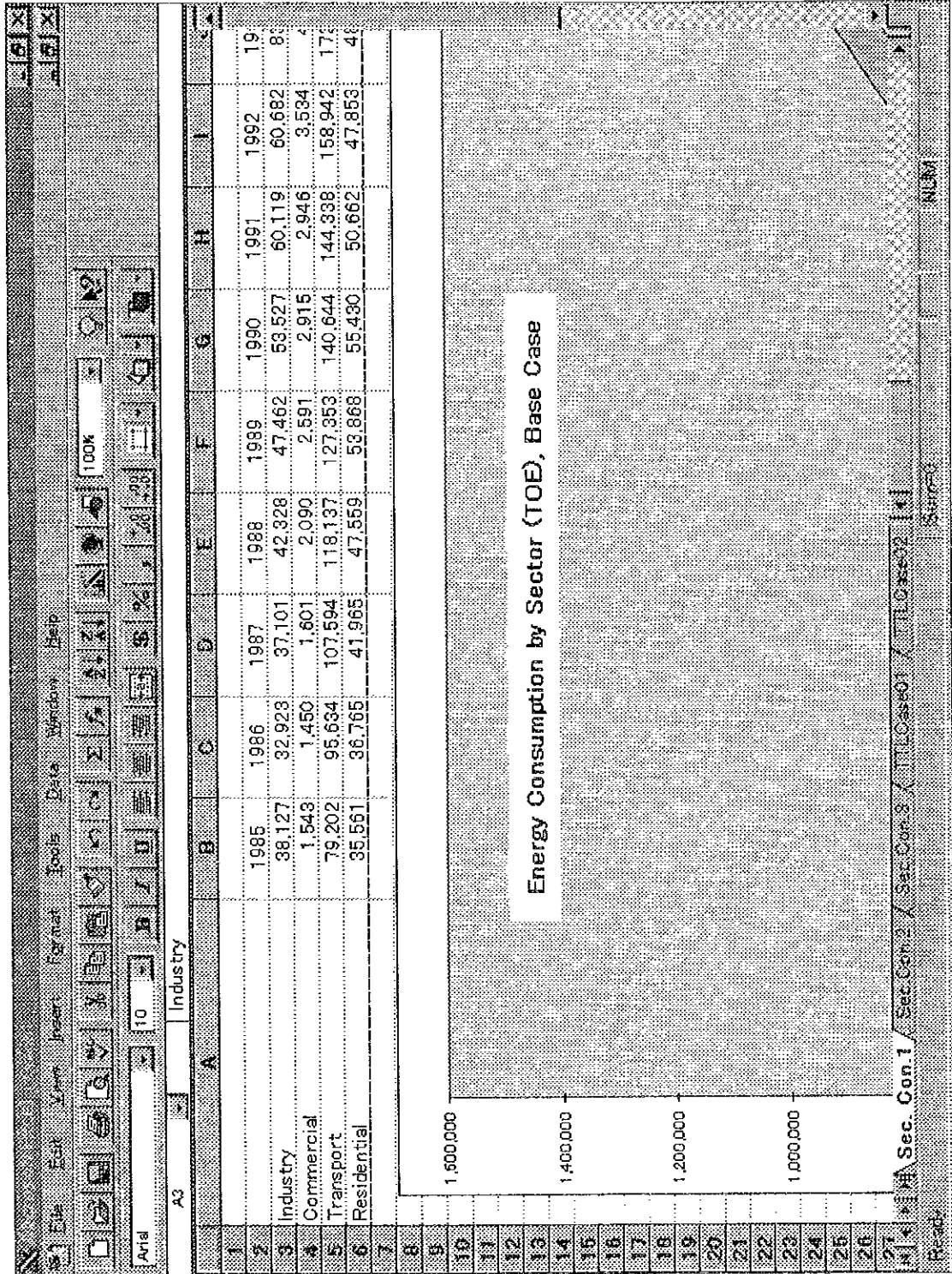
(Refer to Screen 102)

This sheet is linked with Base_Case.XLS, and Case_Simulation.XLS and refers to TOE based comparative graph of energy consumption including electricity and non-electricity.

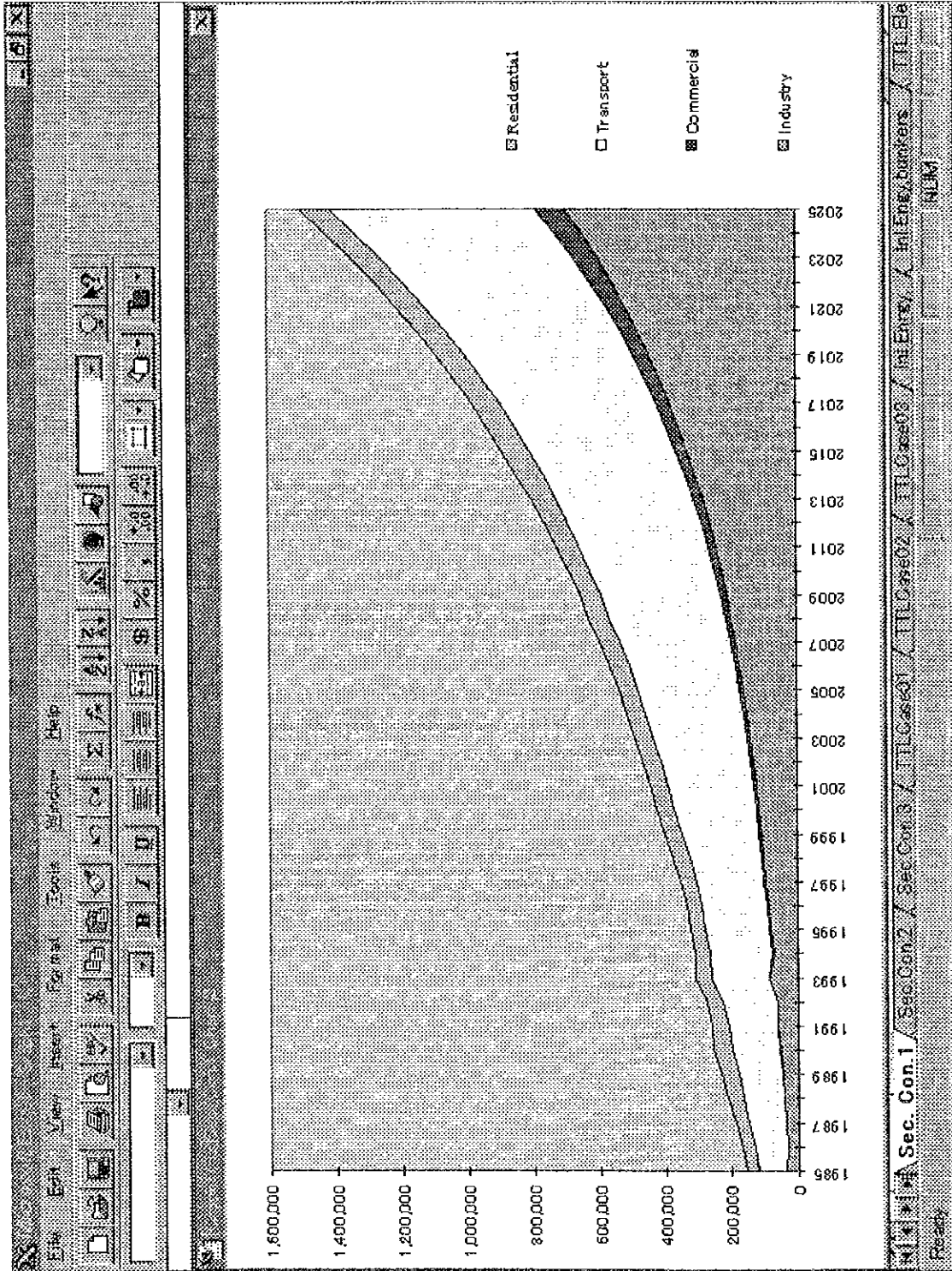
(12) fuelinp.ele.gene

(Refer to Screen 103)

This sheet refers to fuel input for electricity generation.

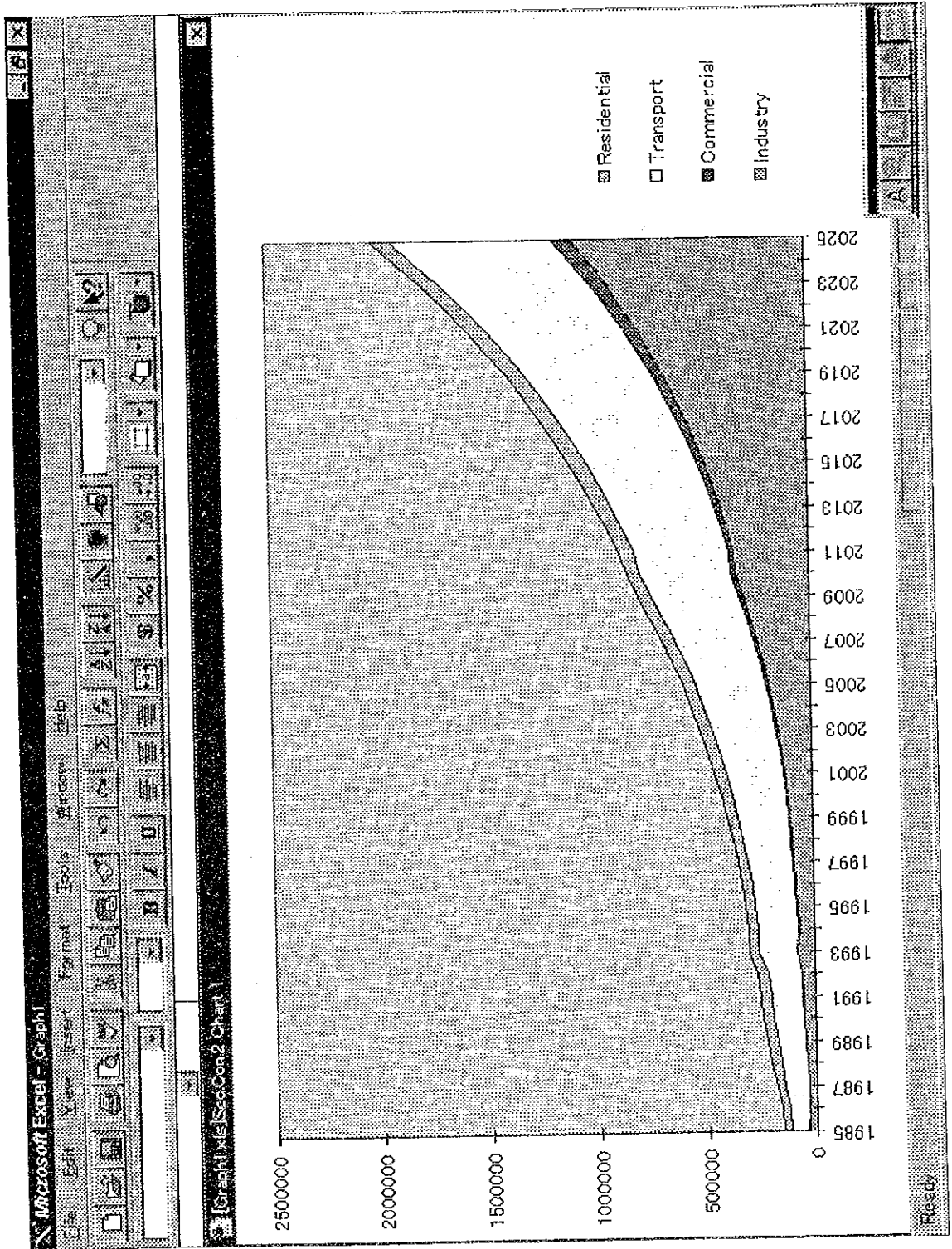


Screen 092

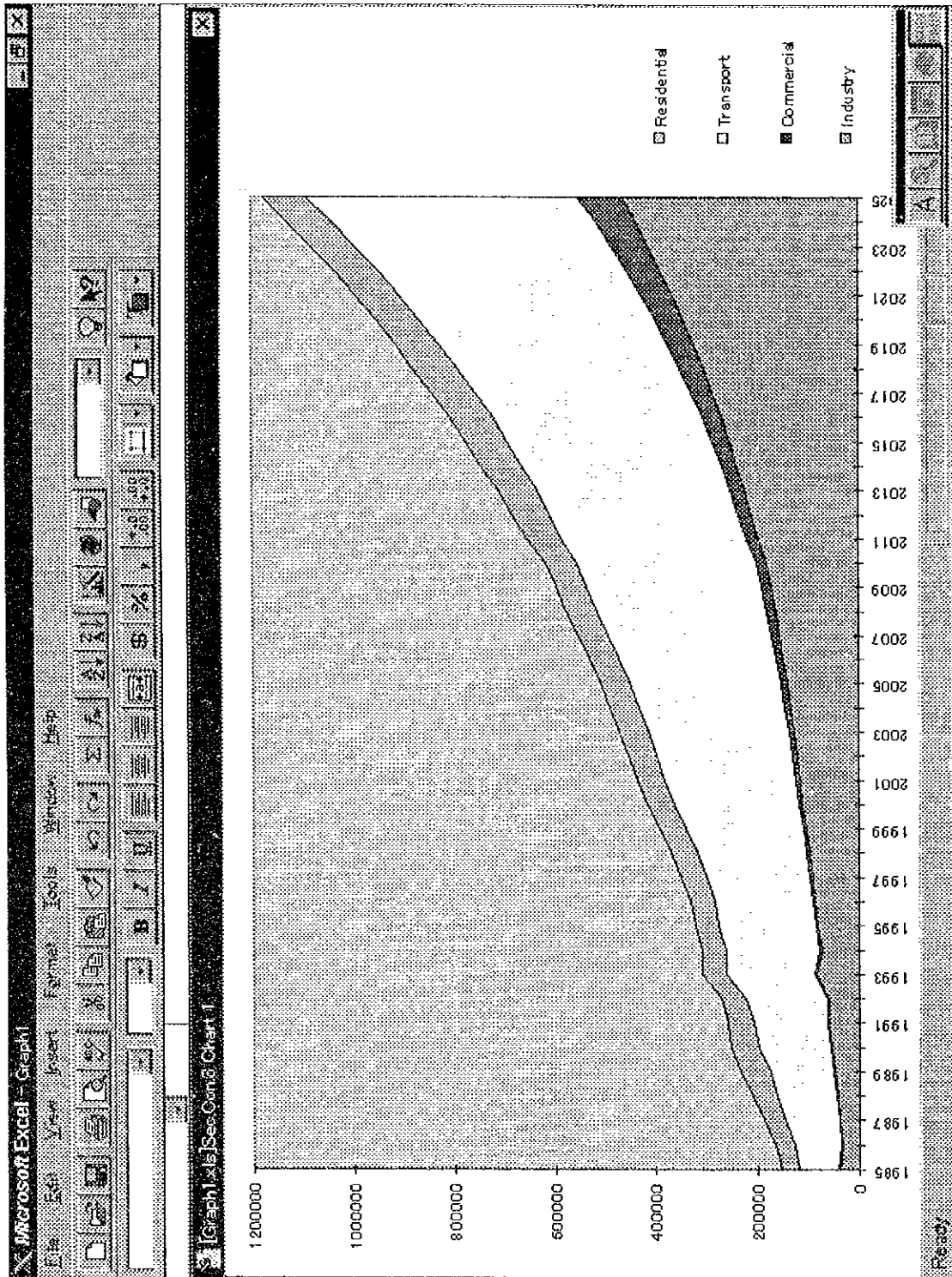


Sec. Con1

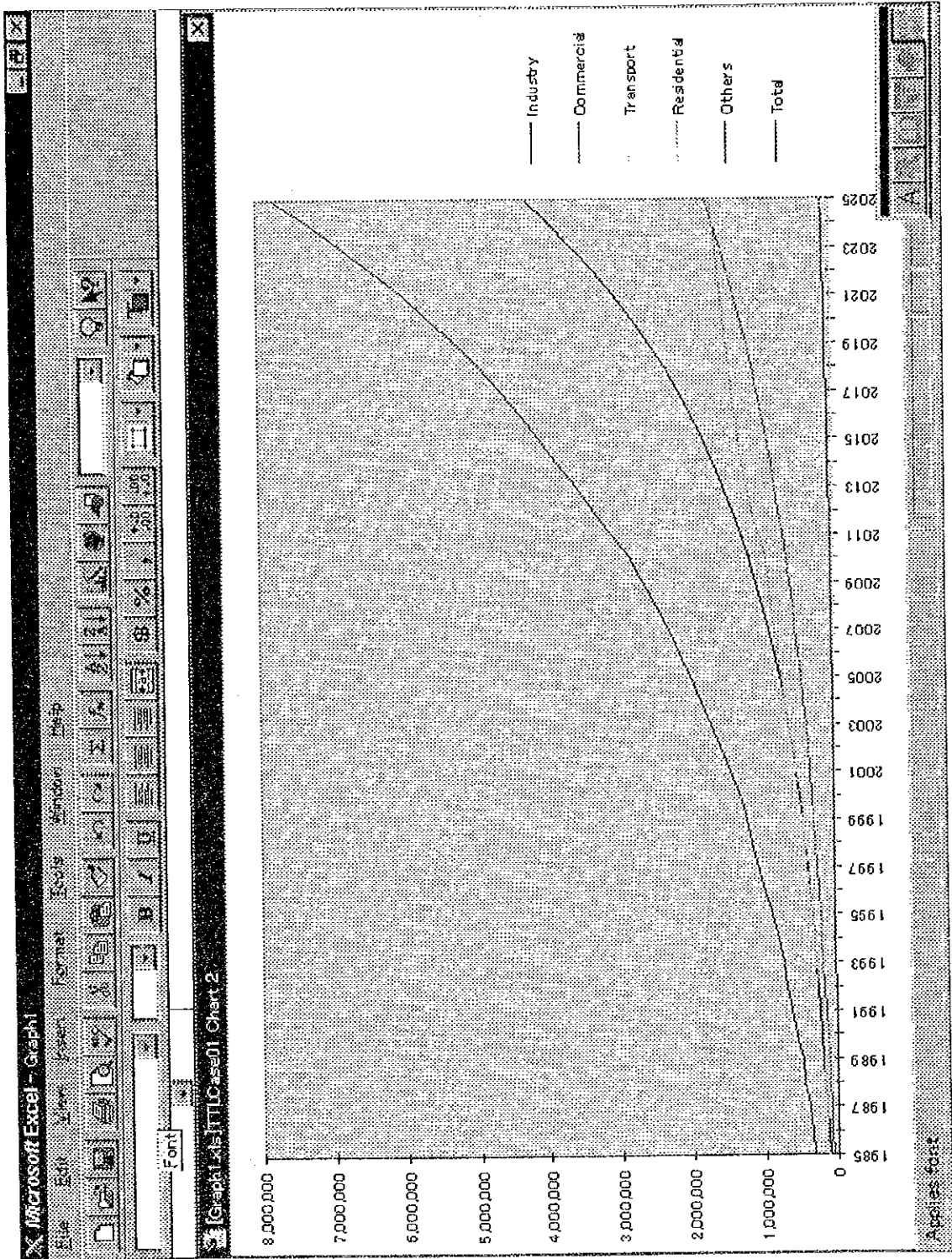
Screen 093



Sec.Con2

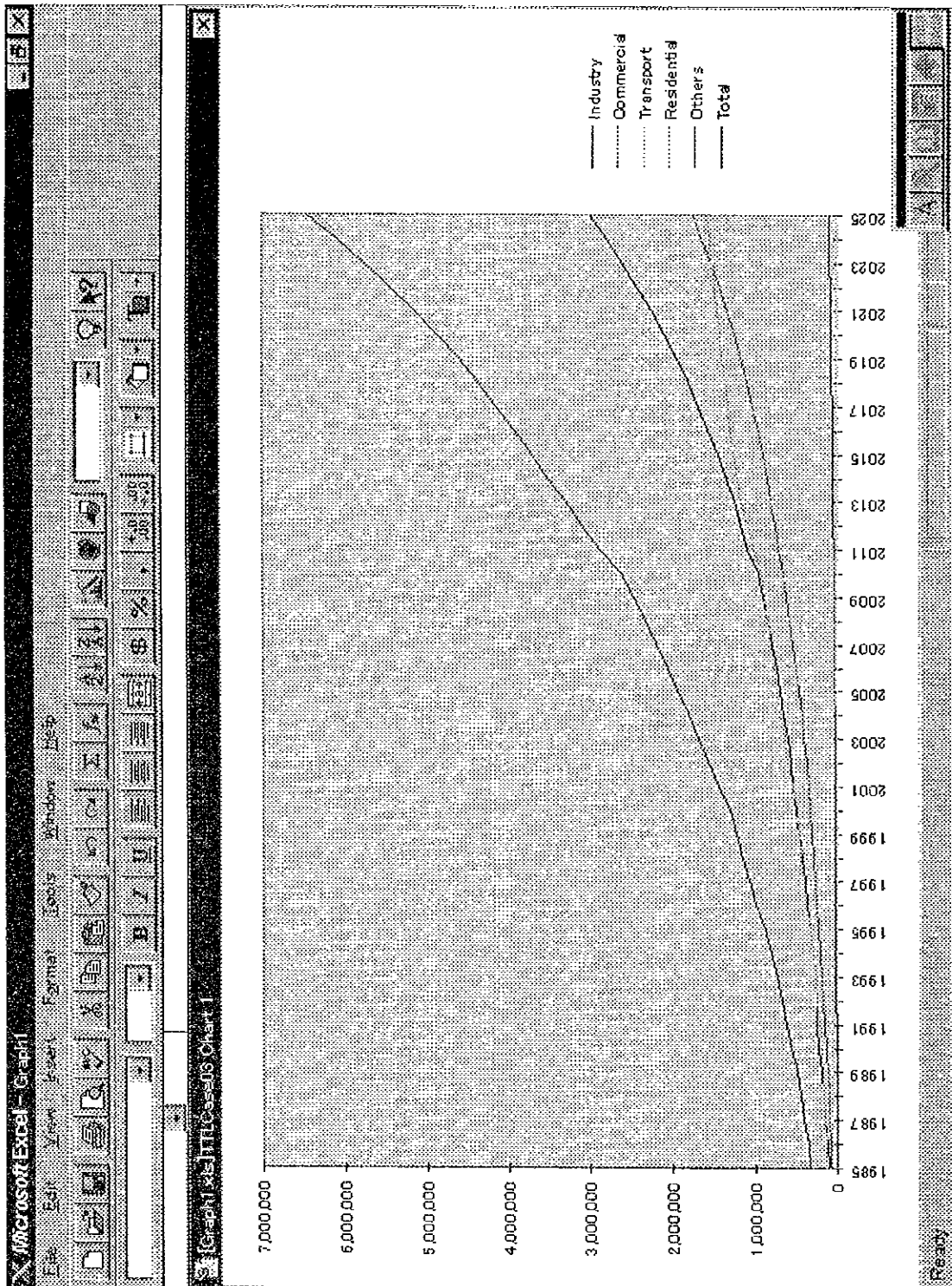


Sec. Con3

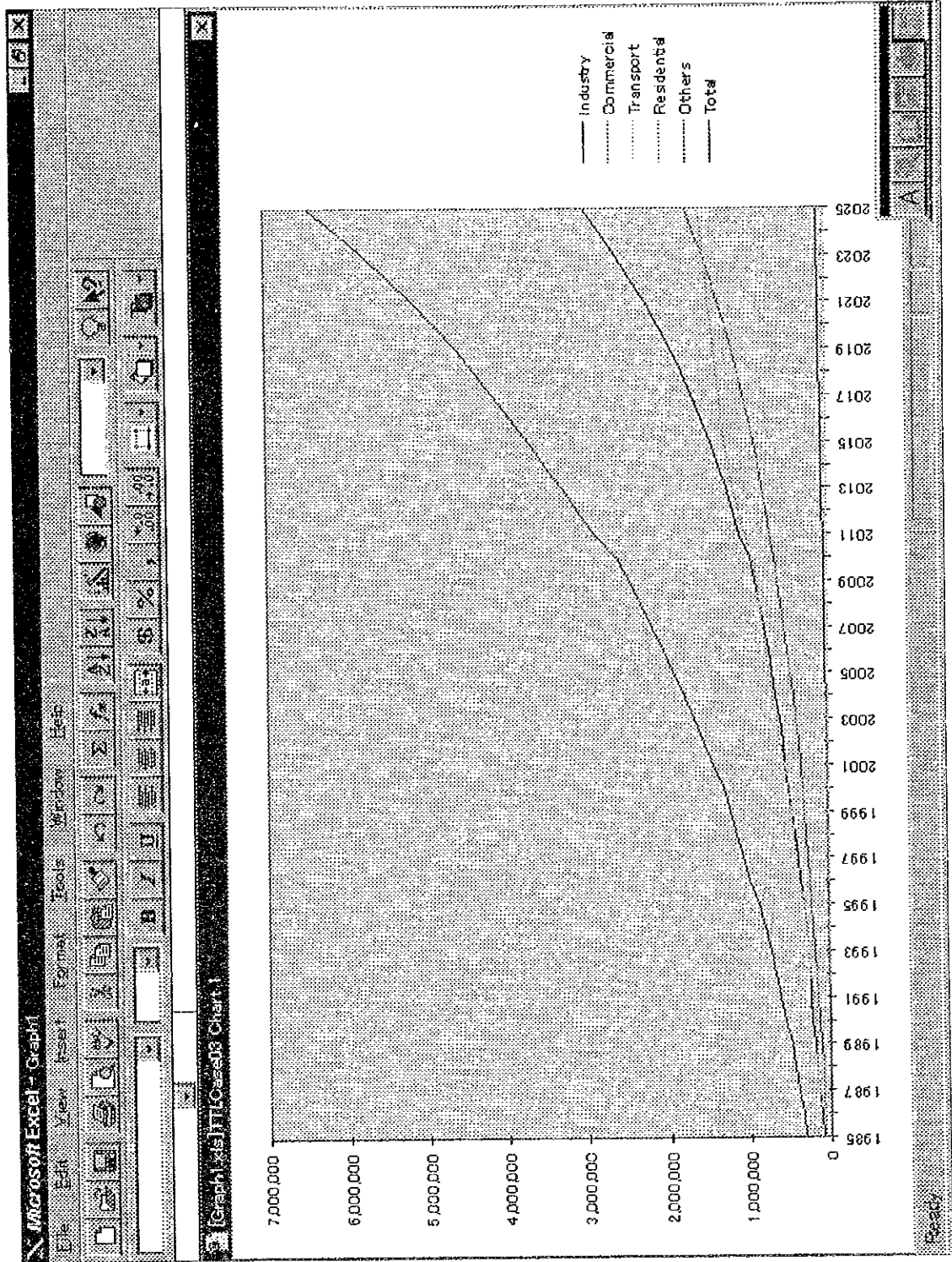


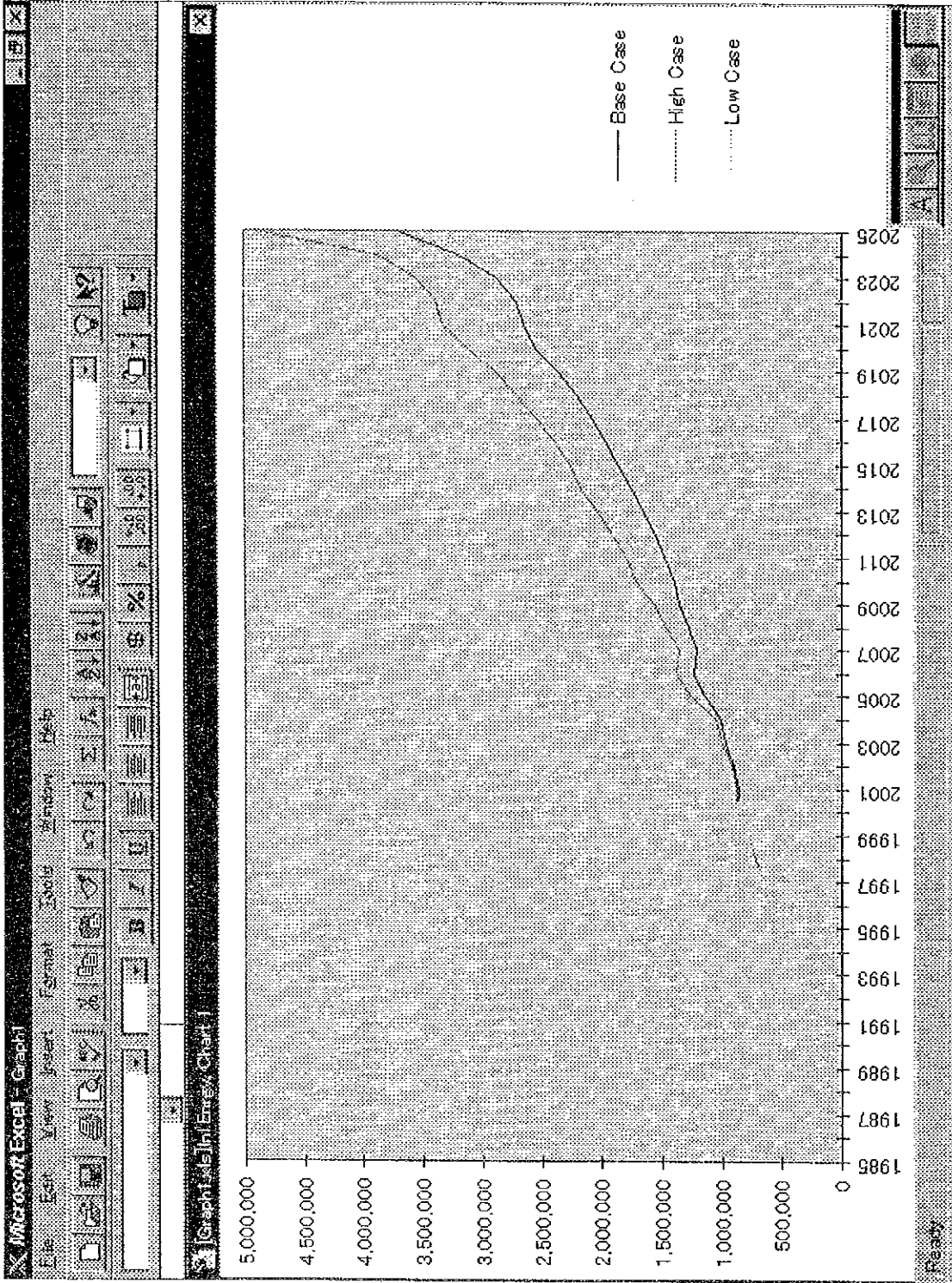
TTLCase1

Screen 096

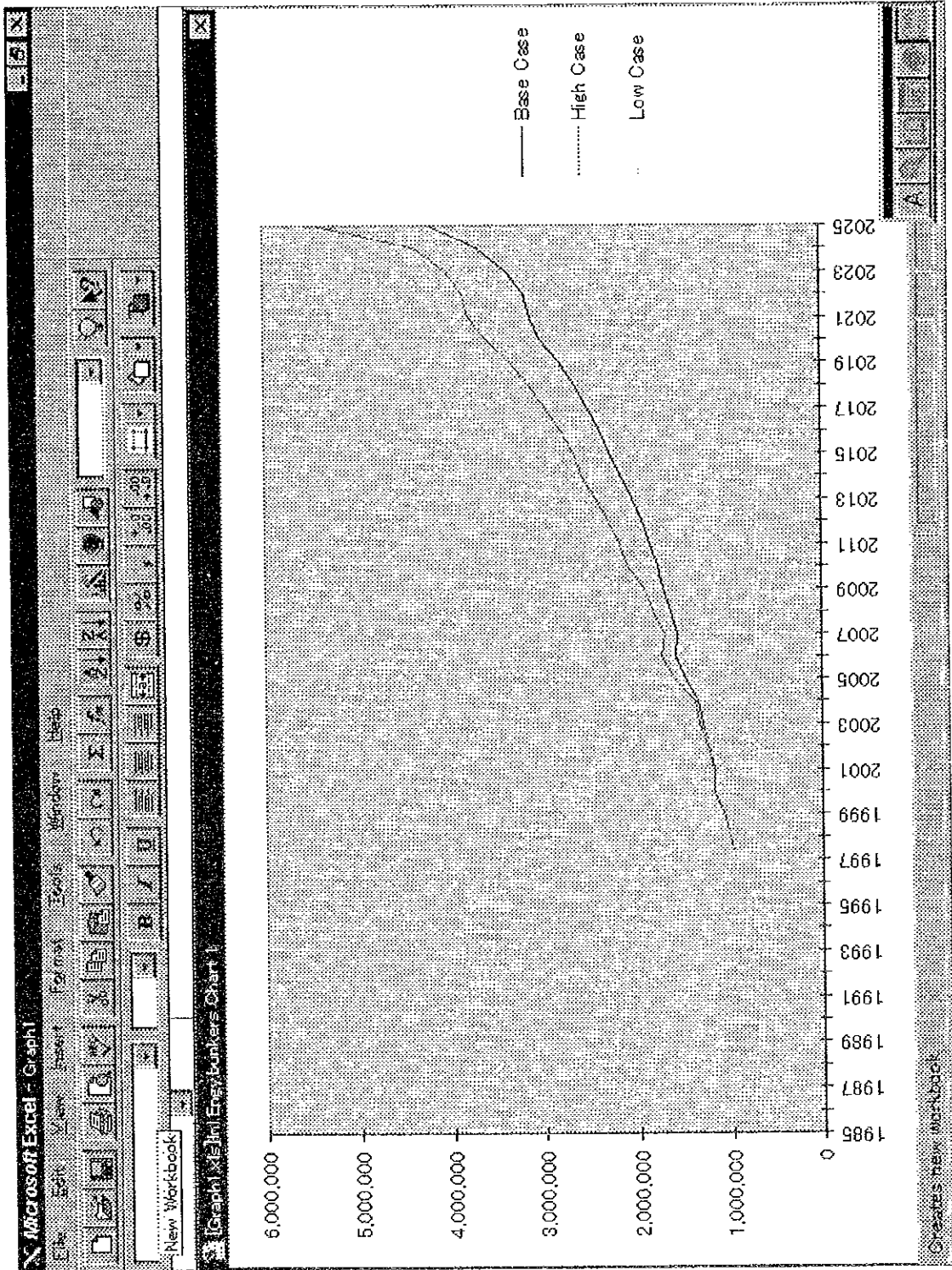


TTLCase2

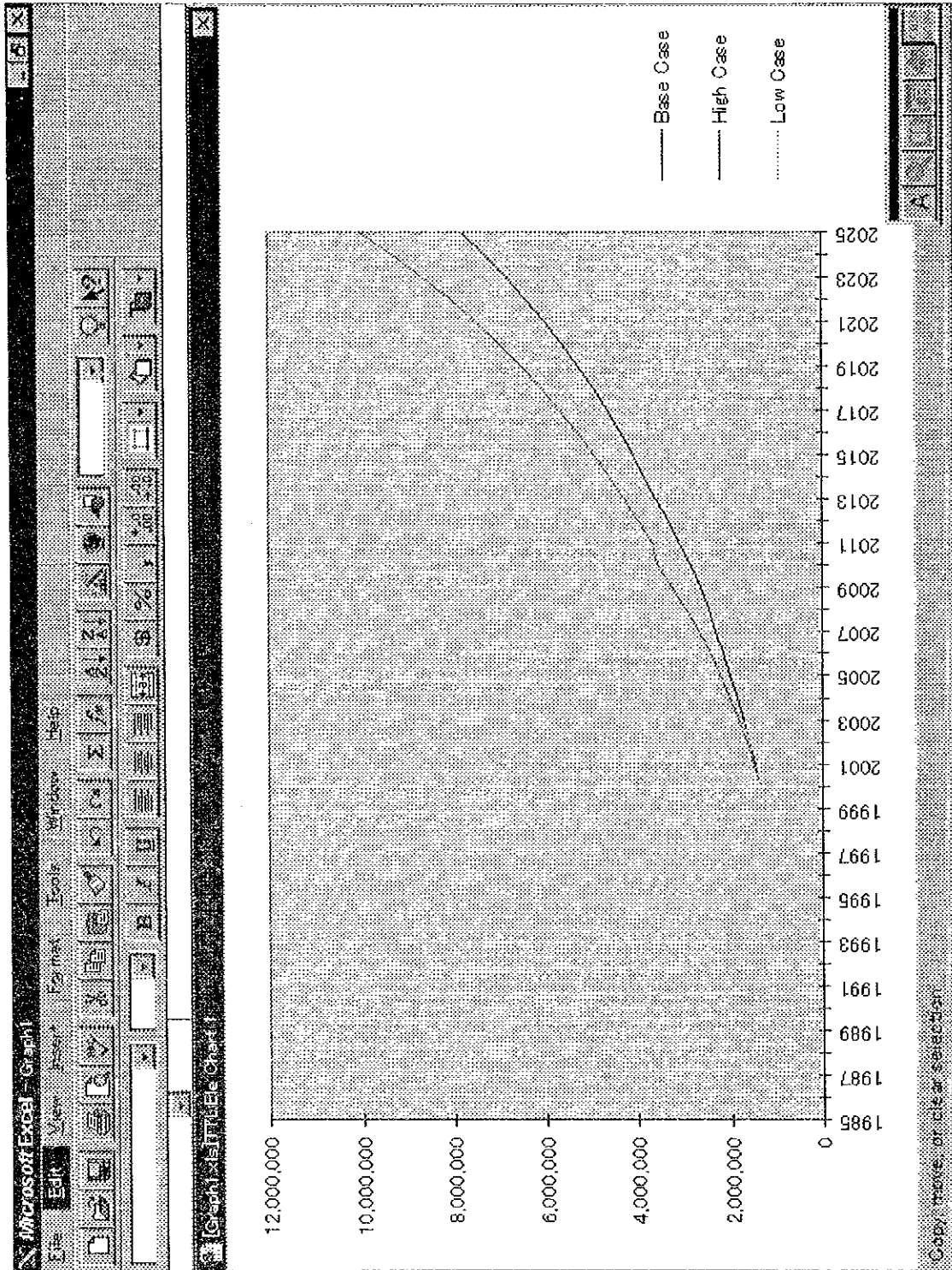




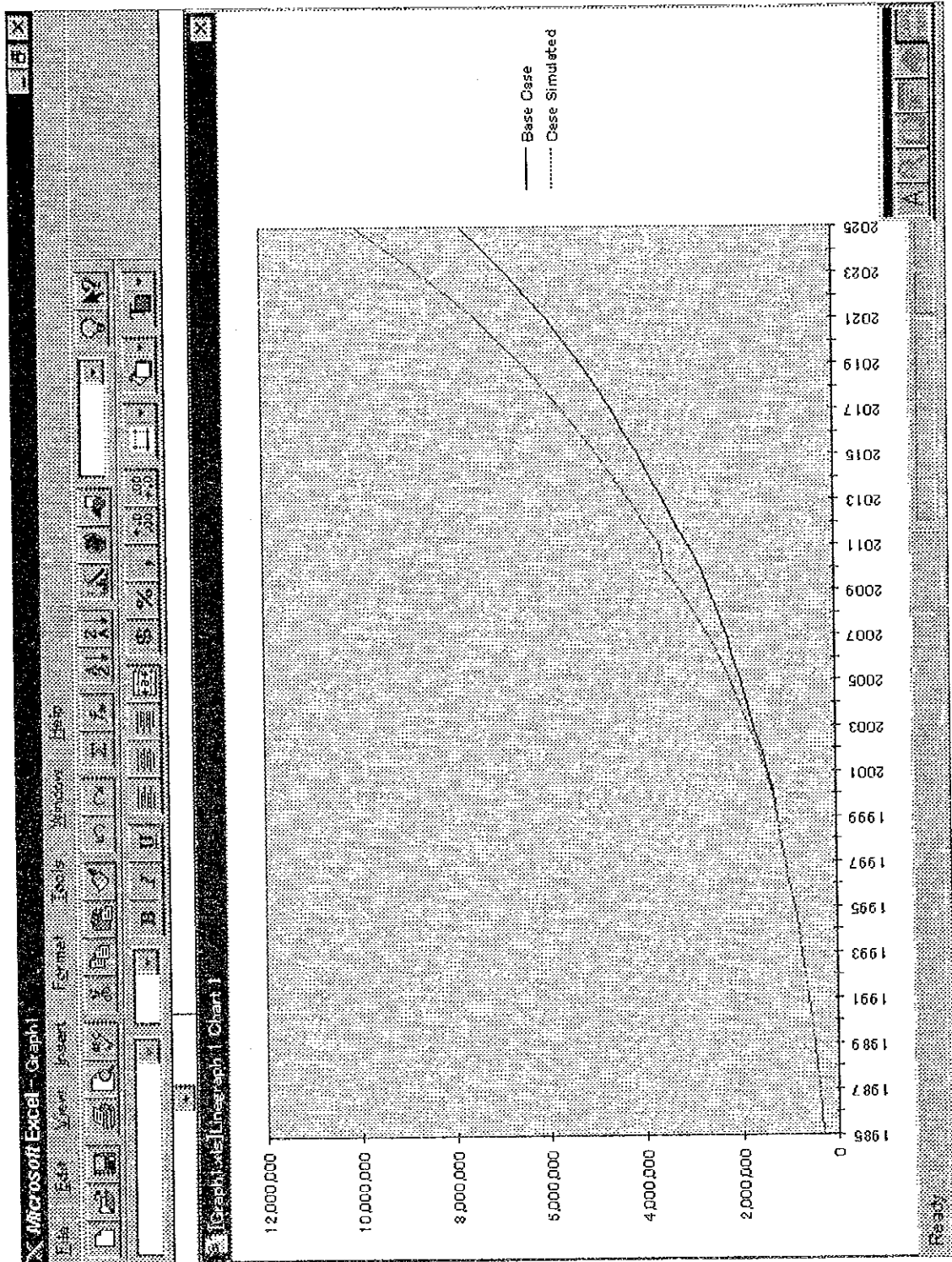
Intl. Energy



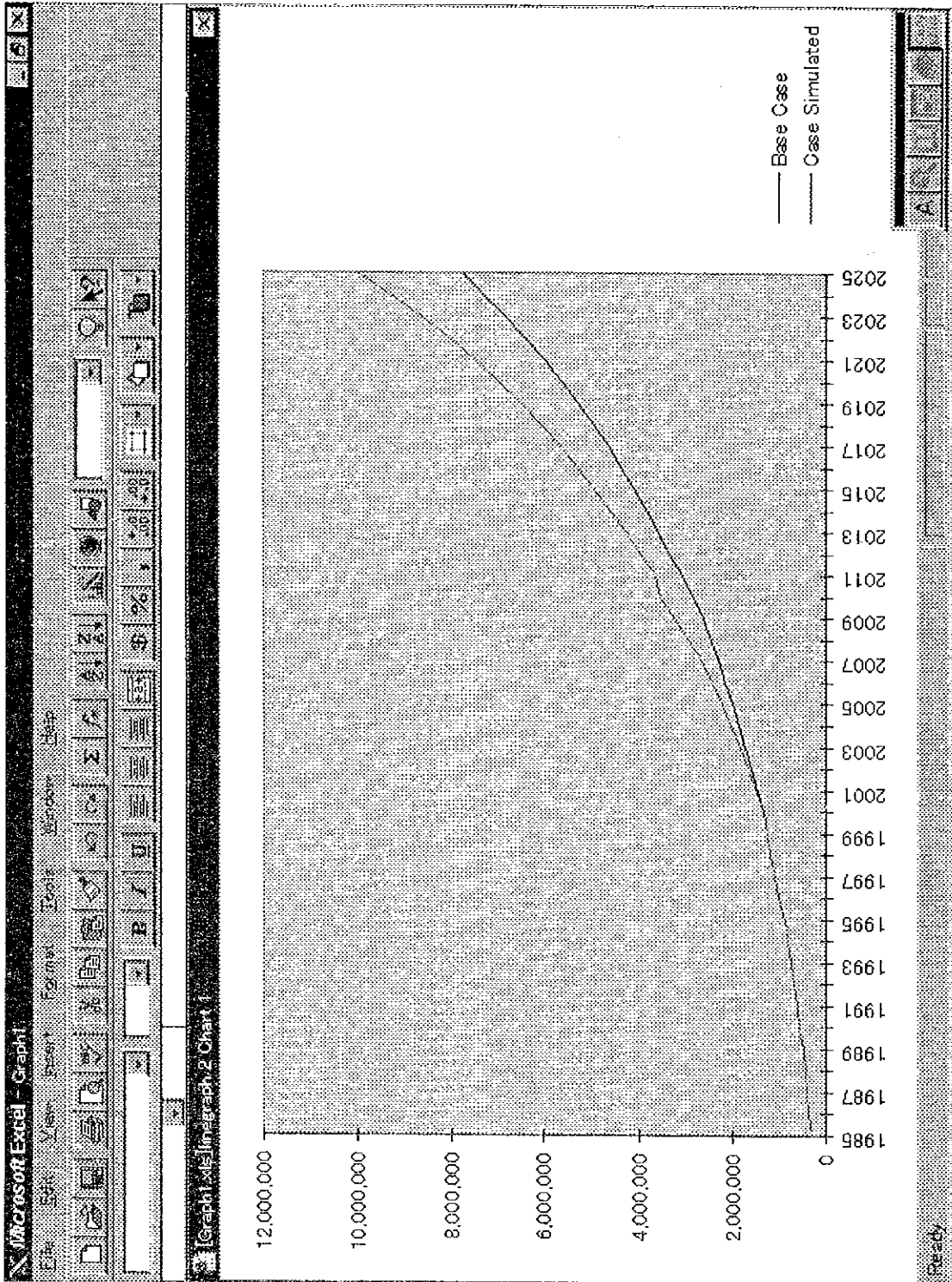
Intl. Energy, bunkers



Screen 101

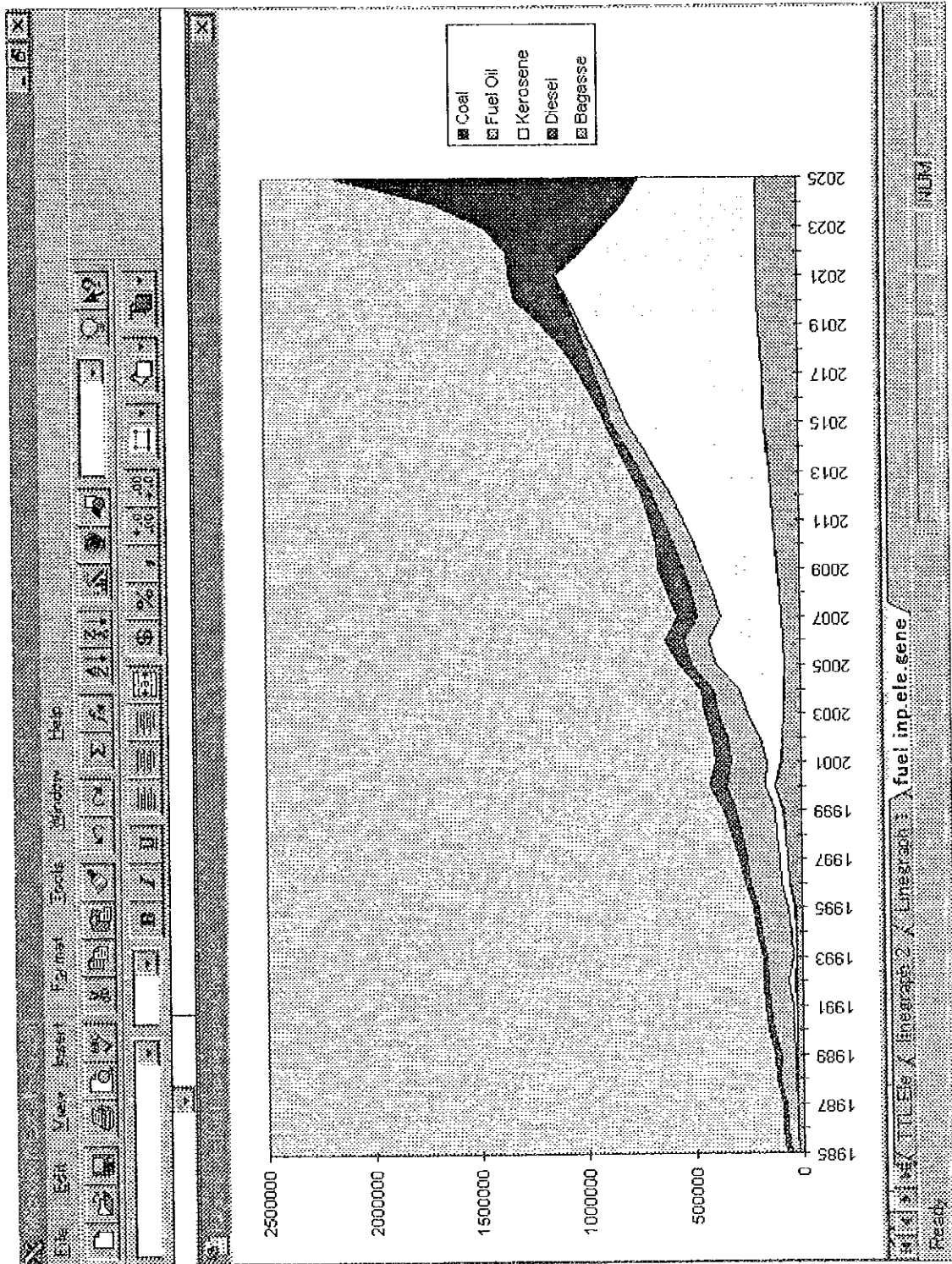


linegraph1



linegraph2

Screen 103



fuel imp.ele.gene

4.20 Structure of File Linkage

Figure 4-17 shows the overall link structure for all files in this energy database.

This link structure can basically be viewed under the assumption that all 16 files in the energy database are linked to the **Energy_Case_01.XL** master file. However, some of these files are linked directly while others are linked indirectly. When a file is directly linked to the **Energy_Case_01.XLS** master file, it indicates that whenever all or part of **Energy_Case_01.XLS** is revised or updated, that the related items in the linked file are also automatically revised or updated by an automatic file transfer function. Examples of this type of file are the **Conversion_Factor.XLS** file and the four **Balance_Table** files.

When a file is indirectly linked, it indicates that when the **Energy_Case_01.XLS** file is revised or updated in some way that some of the related items in the linked file must be updated manually. Examples of this type of file are **REGM_Macro.XLS**, **REGE_macro.XLS**, and the **Abbreviations_List.XLS**. In the case of these files, they can be updated easily through a simple, repetitive cut-and-paste procedure. This is not a particularly difficult job as other cells within the file which are affected are revised and updated automatically as the process proceeds. For example, suppose it becomes necessary to revise and update some macro-economic and historical energy demand data within the **Energy_Case_01.XLS** file from 1985 to 1995. It will naturally become necessary to update the historical data contained in the **Eng** sheet of the **REGM_Macro.XLS** file and the **REGE_Macro.XLS** file which use this historical data to perform regression analysis. In this case, the operator needs to copy the historical data for 1985 through 1995 from **Energy_Case_01.XLS** and paste it into both of these files. Once this procedure is complete, the job of deriving computations and results necessary for regression analysis performed using other sheets within the same files will be handled automatically.

Chapter 6 gives a description of revision and update procedures for all files which are directly and indirectly linked to **Energy_Case_01.XLS**.

Table 4-1 Layer Structure of Energy Database

Desktop:\	
Network Neighborhood:\	
	Energy_Data_Base\
	1. Main_Menu.XLS
	2. Energy_Case_01.XLS
	3. Energy_Case_02.XLS
	4. Energy_Case_03.XLS
	5. REGM_Macro.XLS
	6. REGE_Macro.XLS
	7. Conversion_Factor.XLS
	8. Abbreviation_List.XLS
	9. Base_Case.XLS
	10. Check_Outcome.XLS
	11. Case_Simulation.XLS
	12. Outcome_Simulation.XLS
	13. Balance_Table_1995.XLS
	14. Balance_Table_2000.XLS
	15. Balance_Table_2010.XLS
	16. Balance_Table_2025.XLS
	17. Energy_Demand_Forecast.XLS

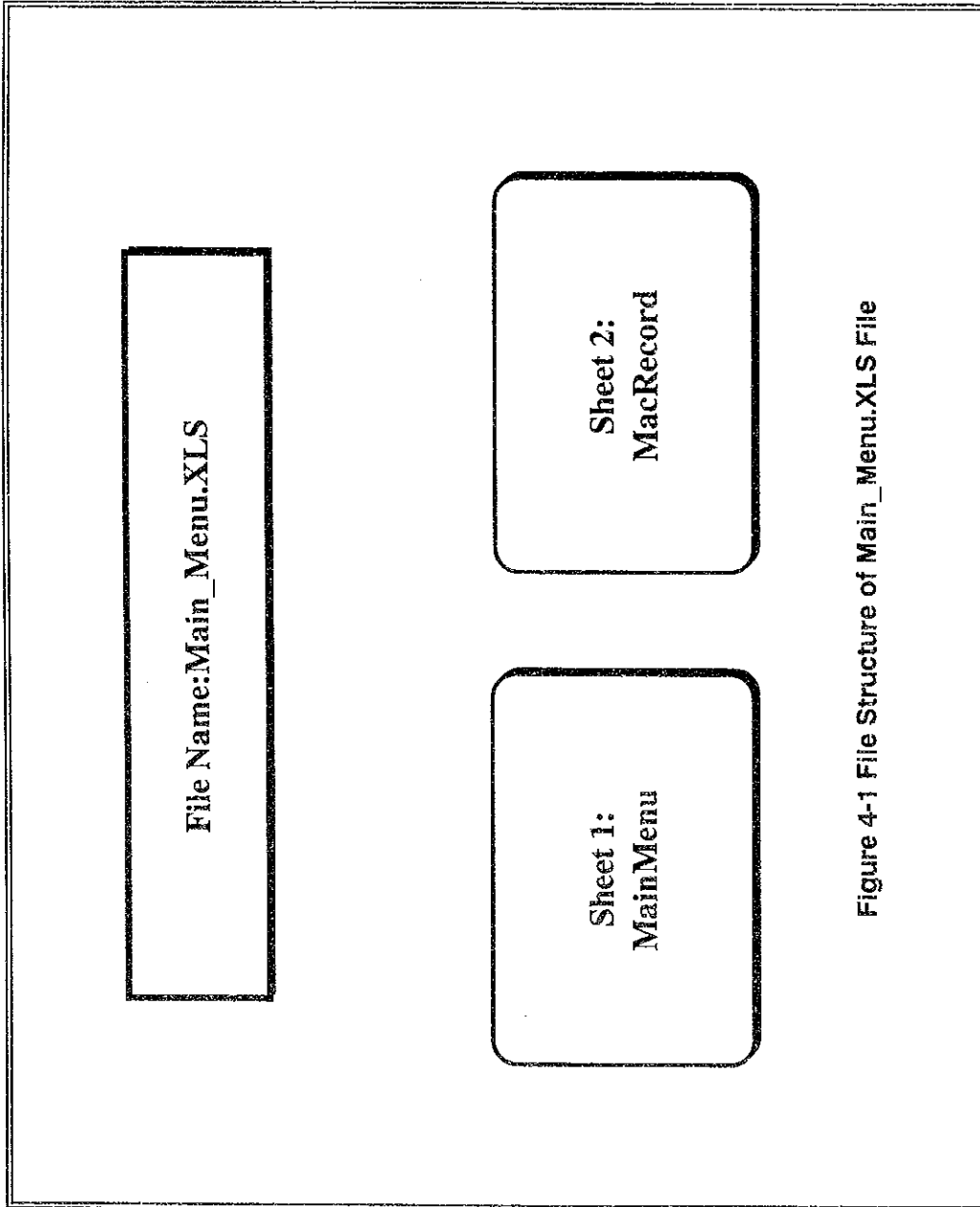


Figure 4-1 File Structure of Main_Menu.XLS File

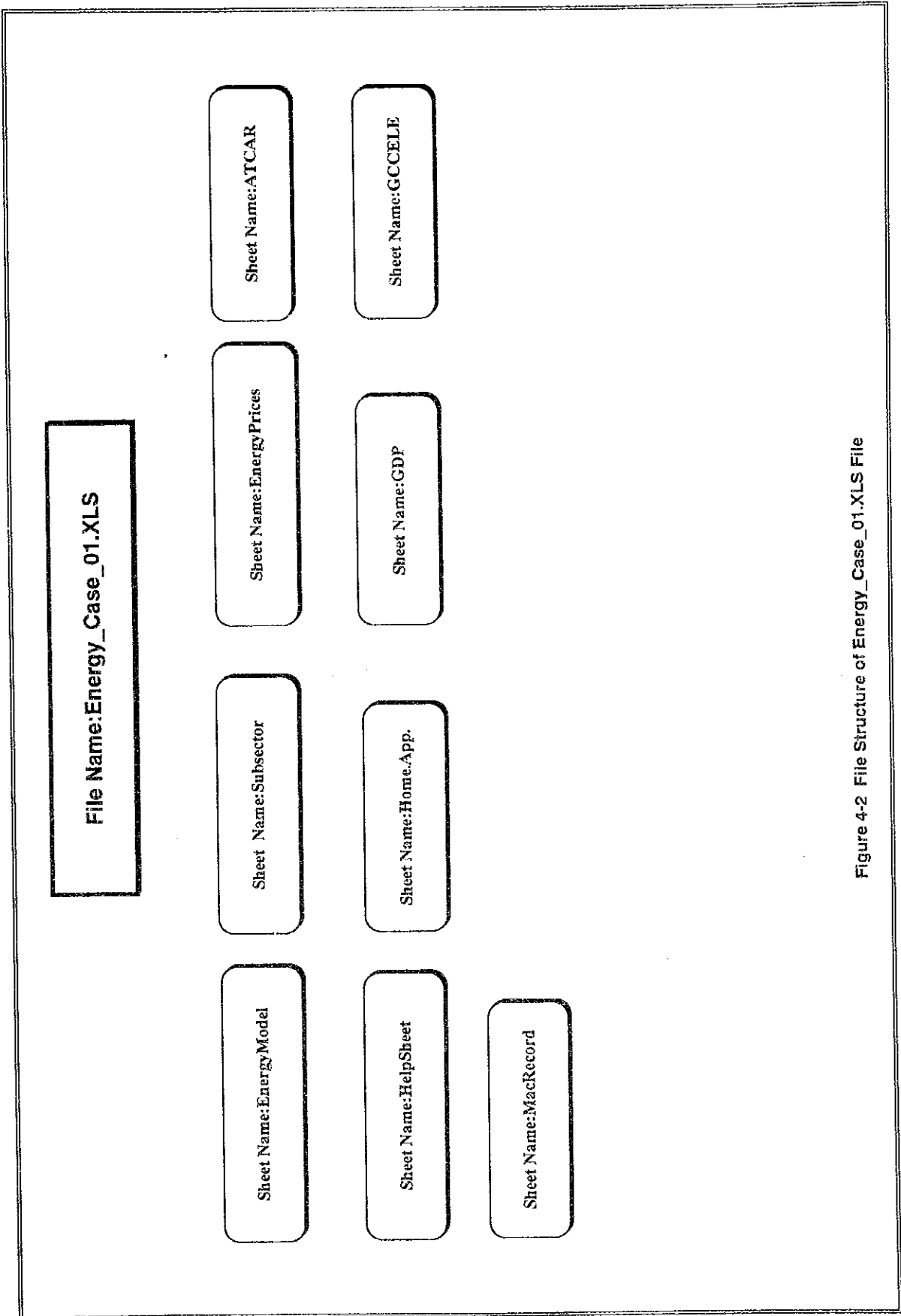


Figure 4-2 File Structure of Energy_Case_01.XLS File

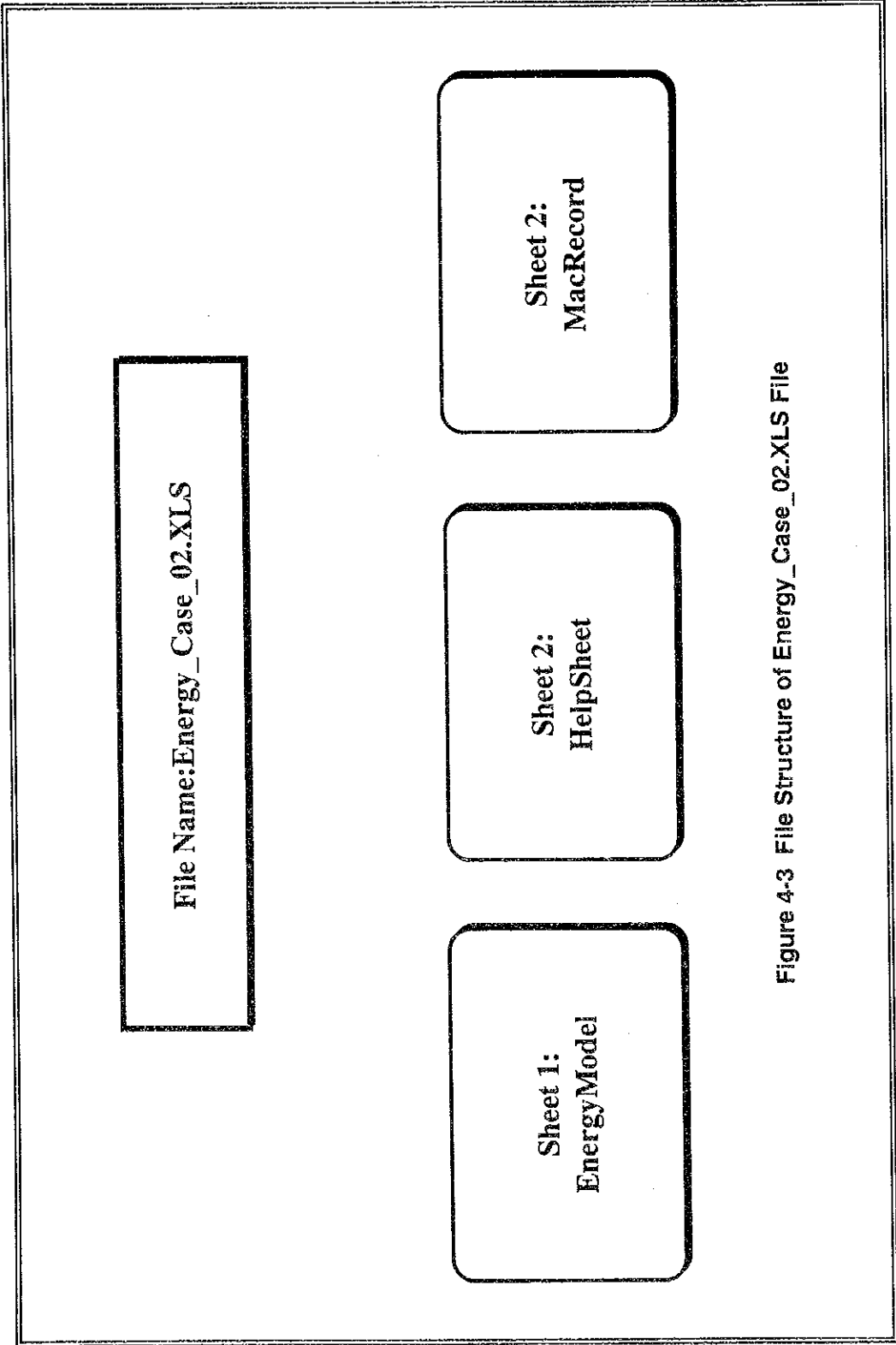


Figure 4-3 File Structure of Energy_Case_02.XLS File

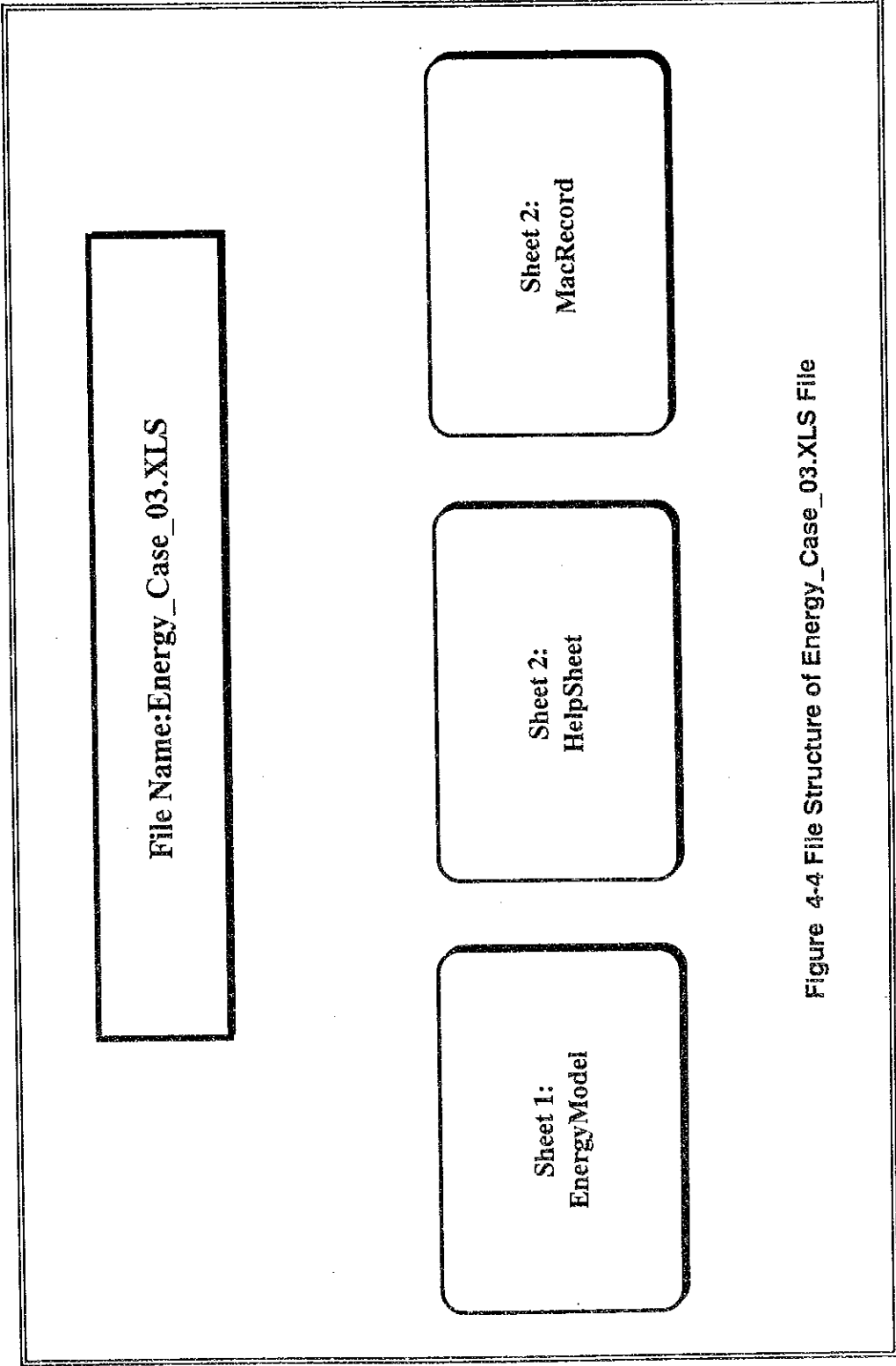


Figure 4-4 File Structure of Energy_Case_03.XLS File

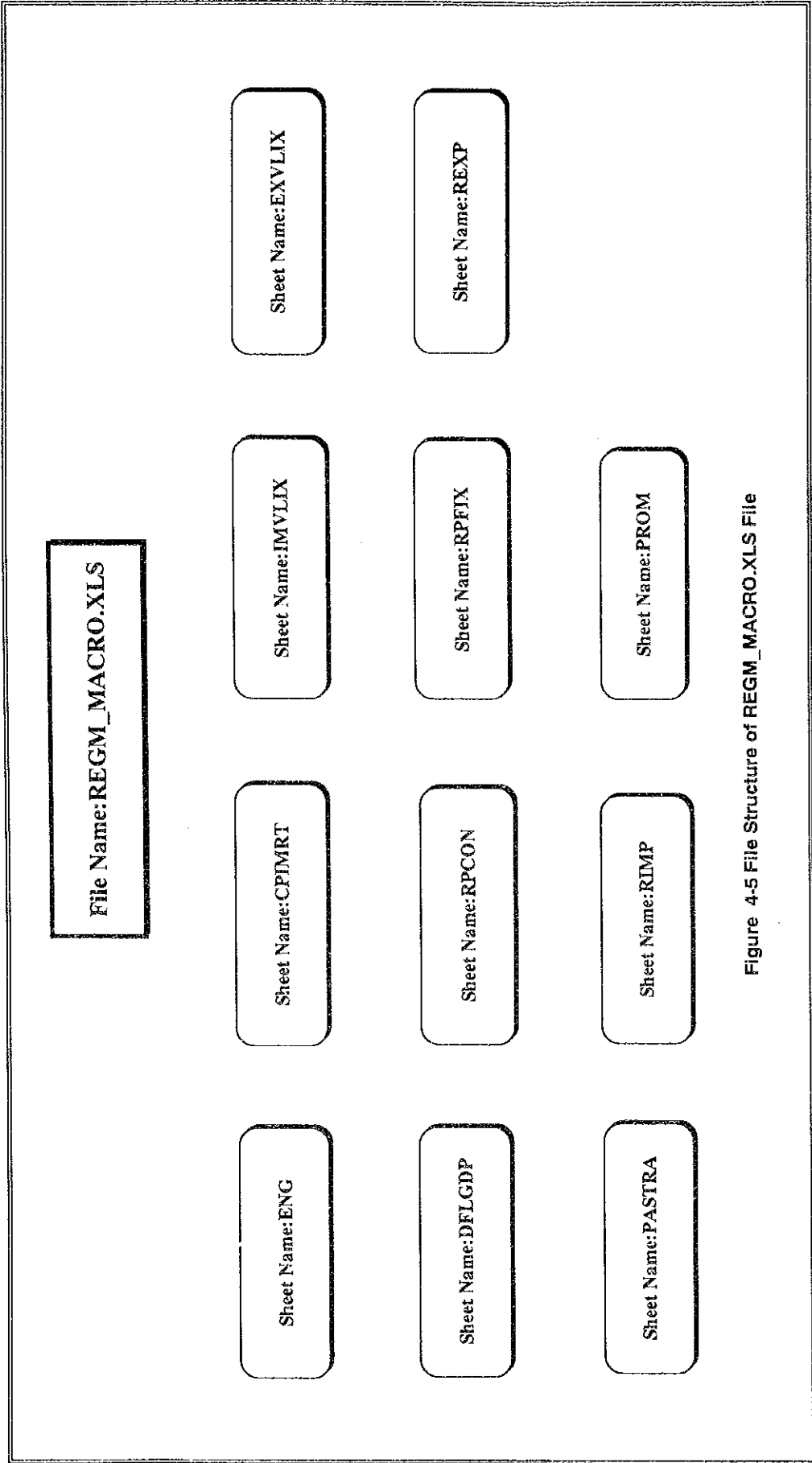


Figure 4-5 File Structure of REGM_MACRO.XLS File

File Name: REGE_MACRO.XLS

Sheet Name: ENG

Sheet Name: ARTV

Sheet Name: ATCAR

Sheet Name: ATCYC

Sheet Name: GCIELE

Sheet Name: TCTTOE

Sheet Name: GCCELE

Sheet Name: TCCTOE

Sheet Name: TCTGAS

Sheet Name: TCTDJE

Sheet Name: GCDELE

Sheet Name: TCDTOE2

Sheet Name: TCDTOE

Sheet Name: PROE

Sheet Name: PROA

Sheet Name: MacRecord

Figure 4-6 File Structure of REGE_MACRO.XLS File

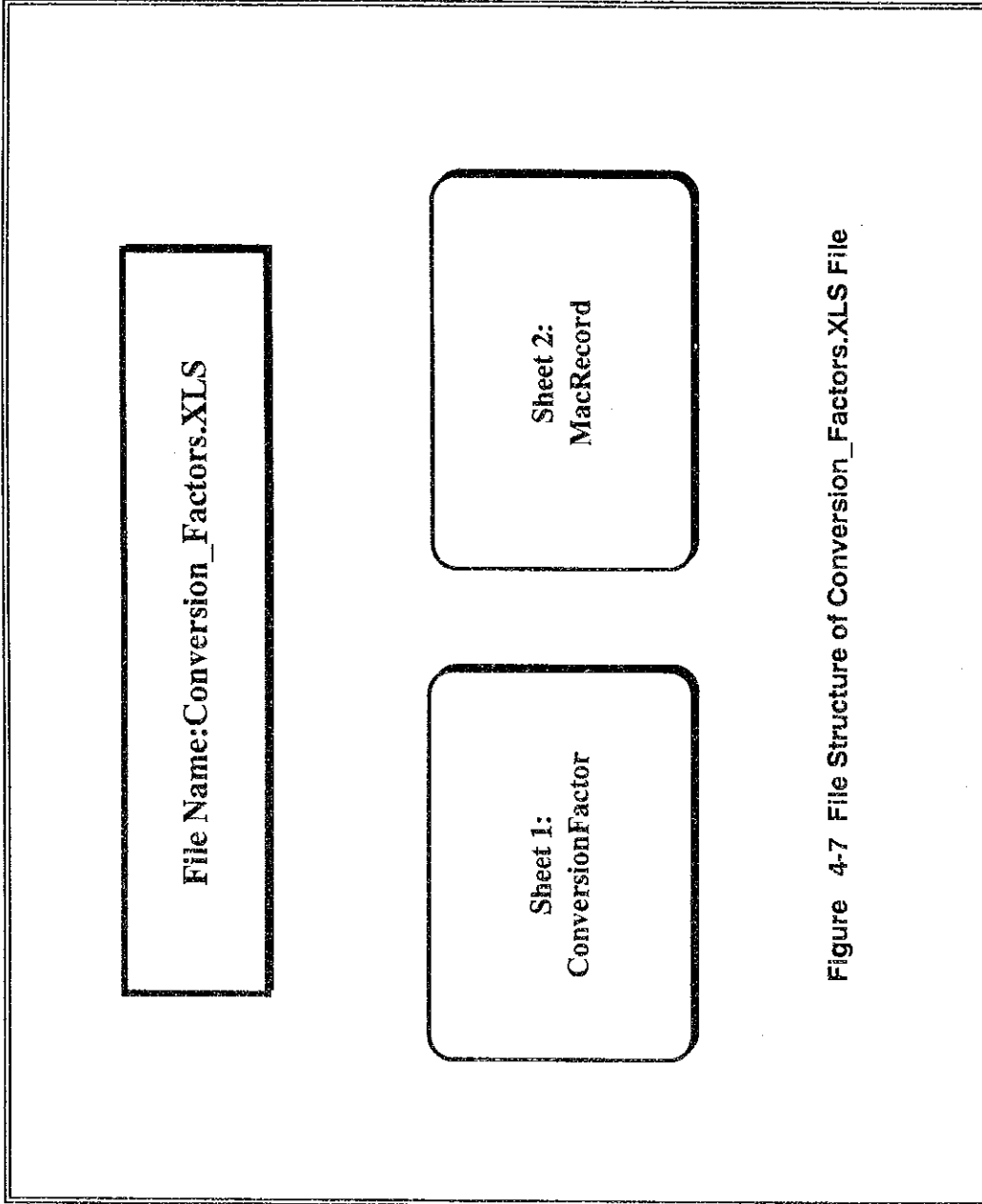


Figure 4-7 File Structure of Conversion_Factors.XLS File

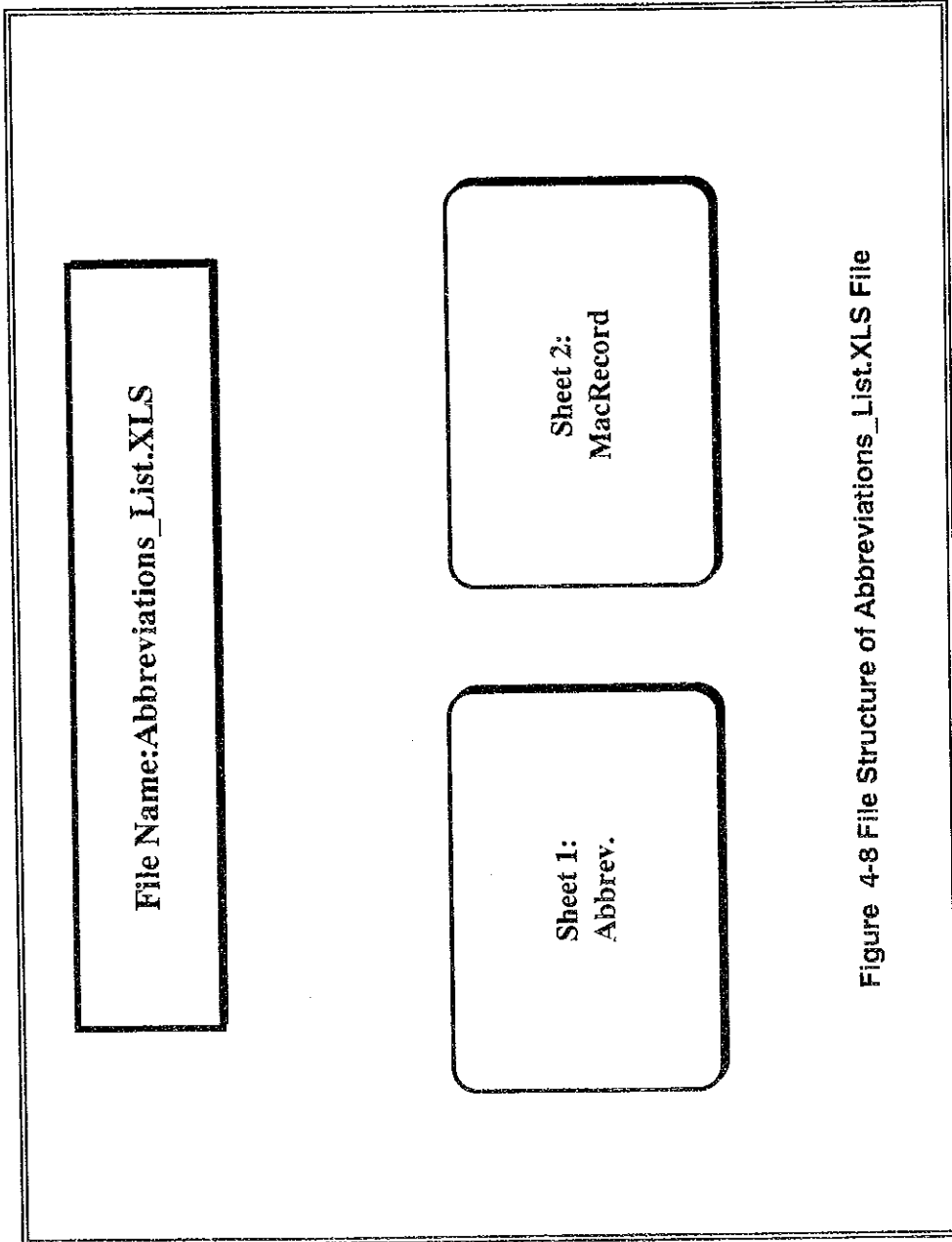


Figure 4-8 File Structure of Abbreviations_List.XLS File

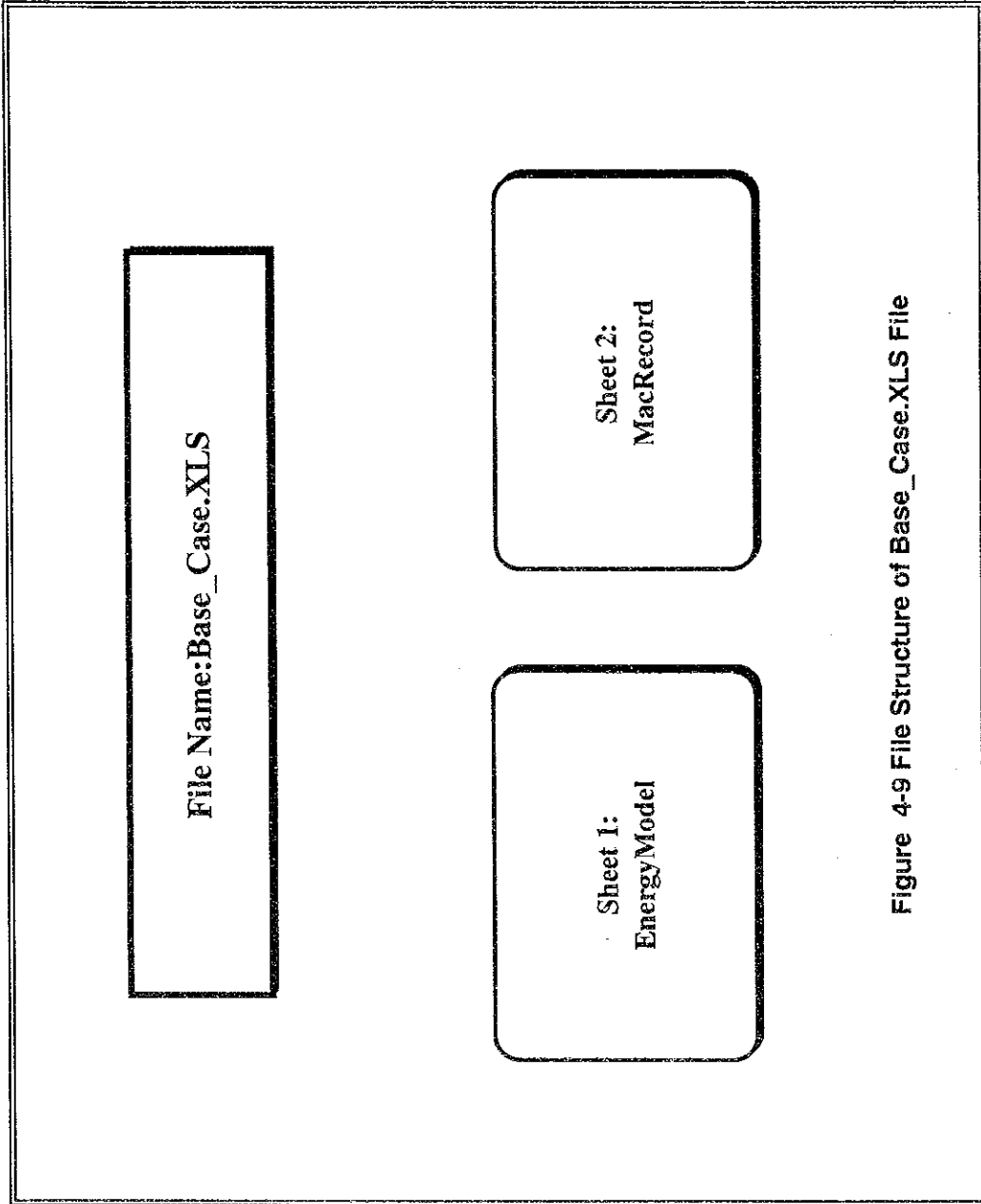


Figure 4-9 File Structure of Base_Case.XLS File

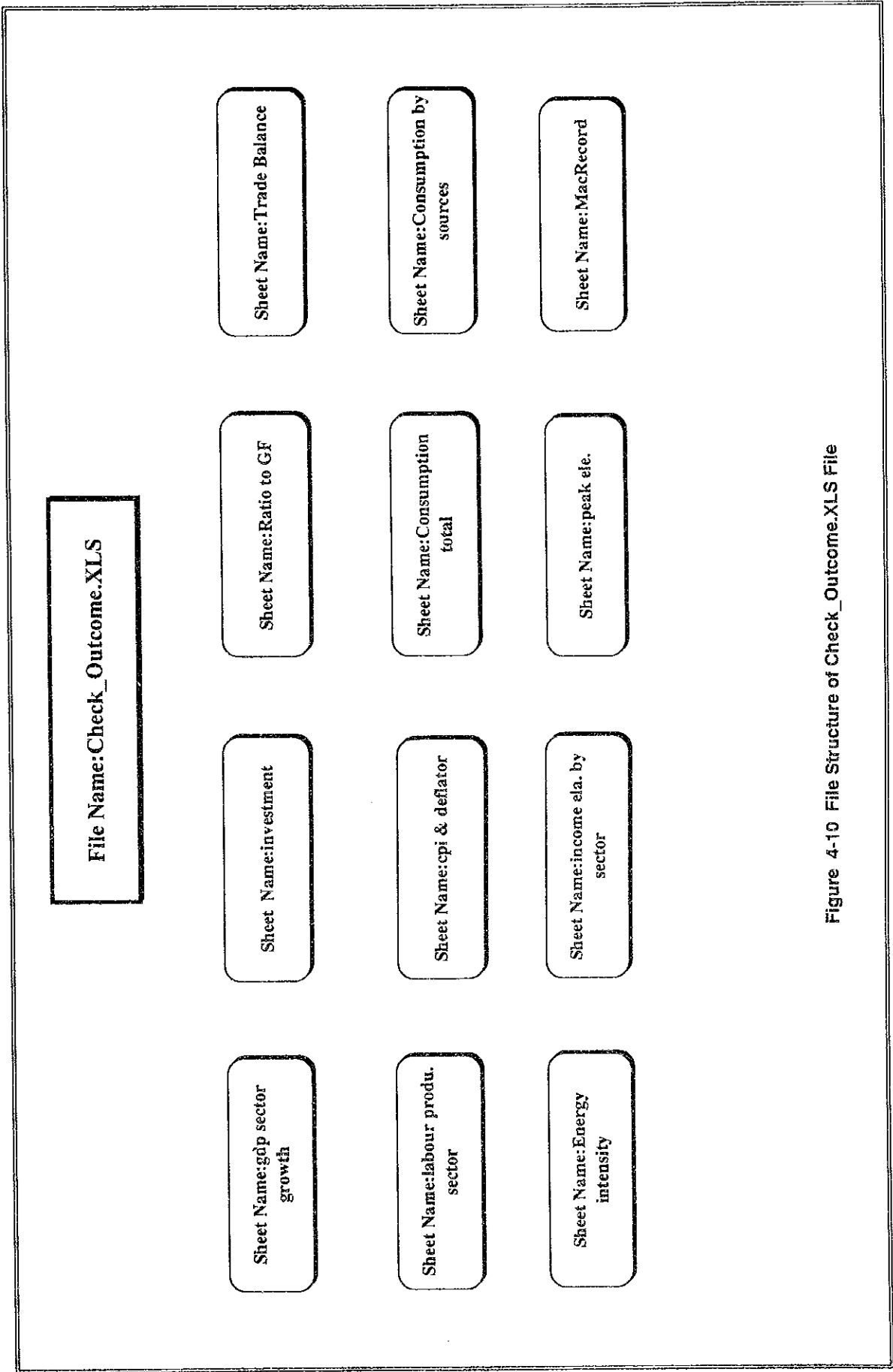


Figure 4-10 File Structure of Check_Outcome.XLS File

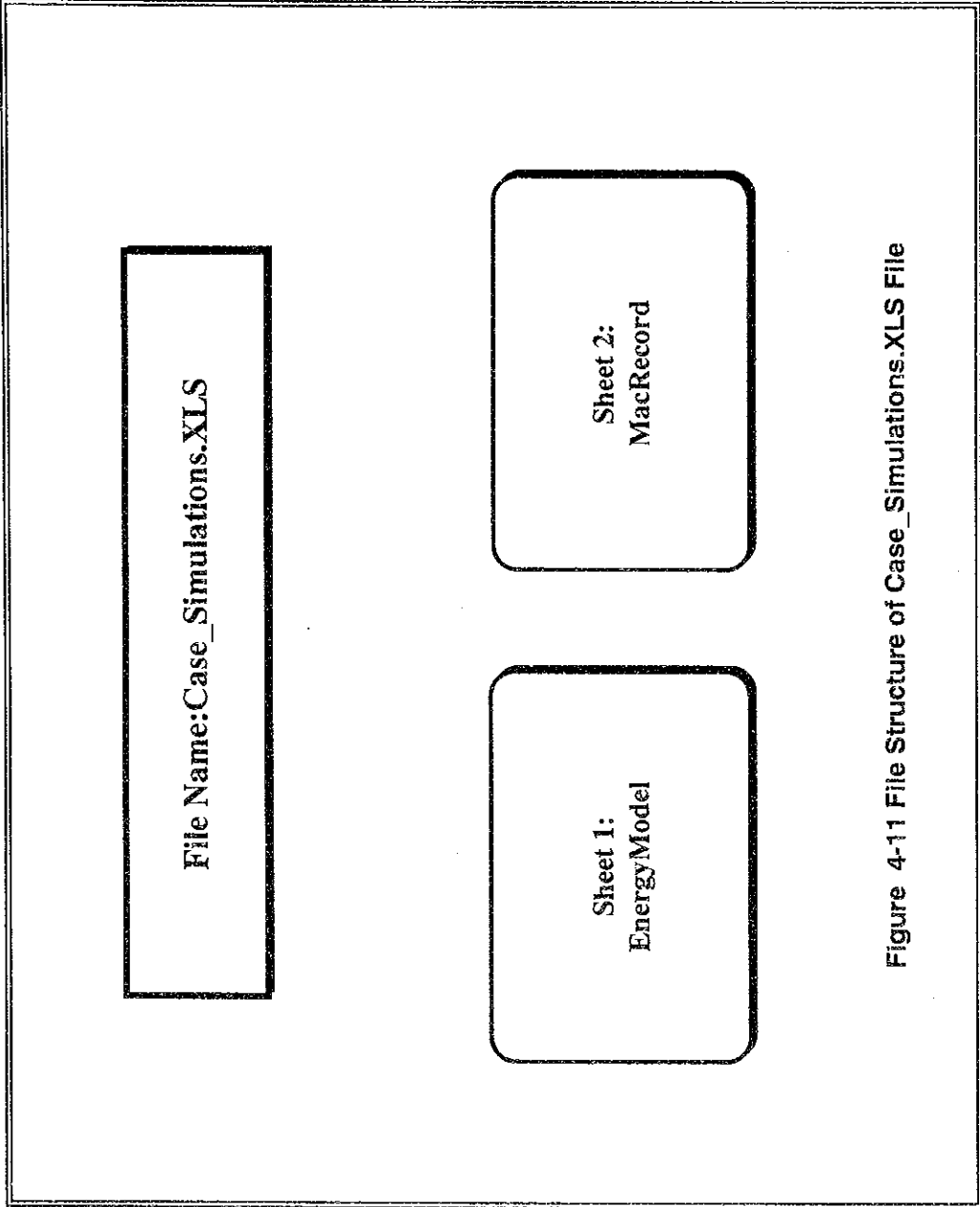


Figure 4-11 File Structure of Case_Simulations.XLS File

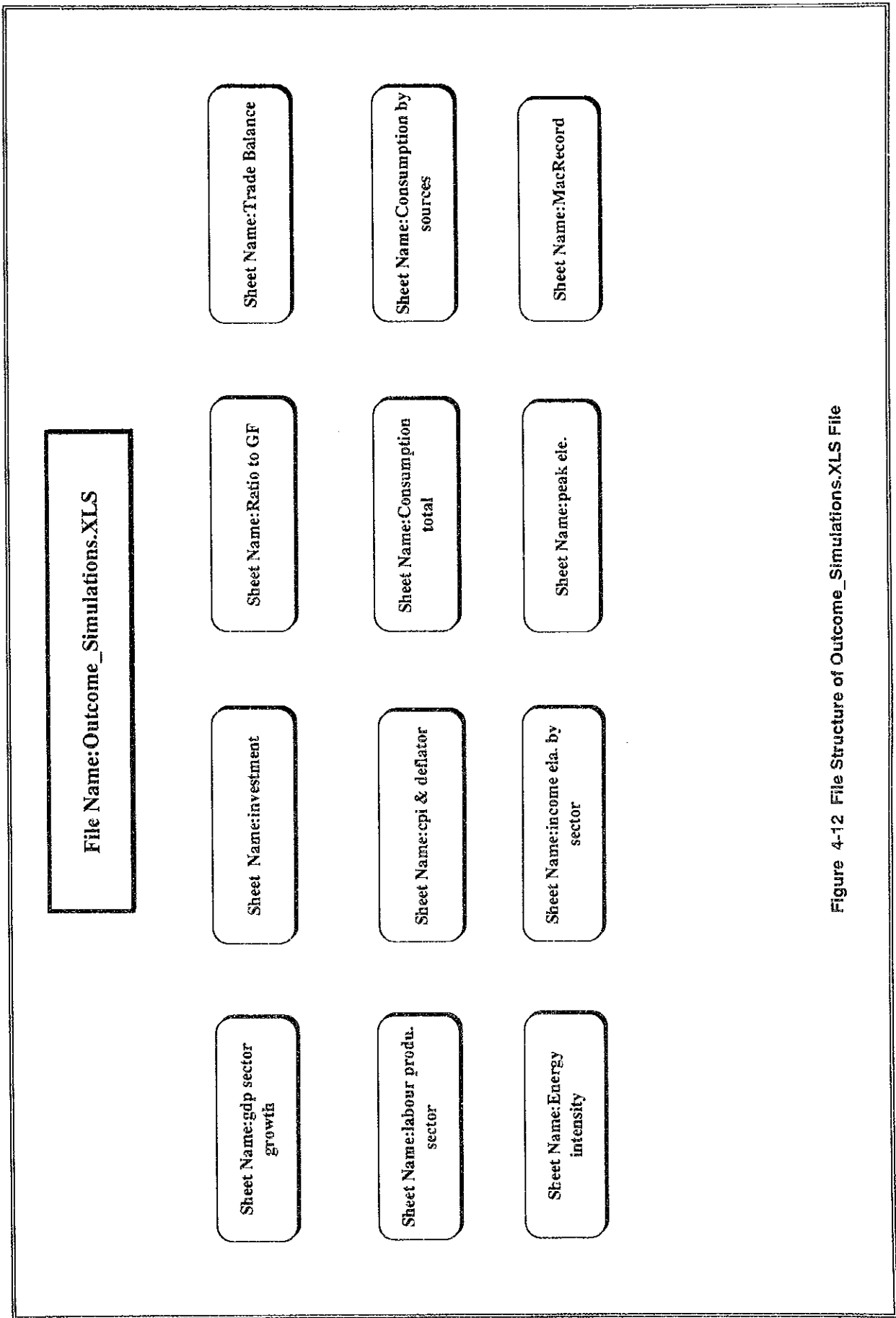


Figure 4-12 File Structure of Outcome_Simulations.XLS File

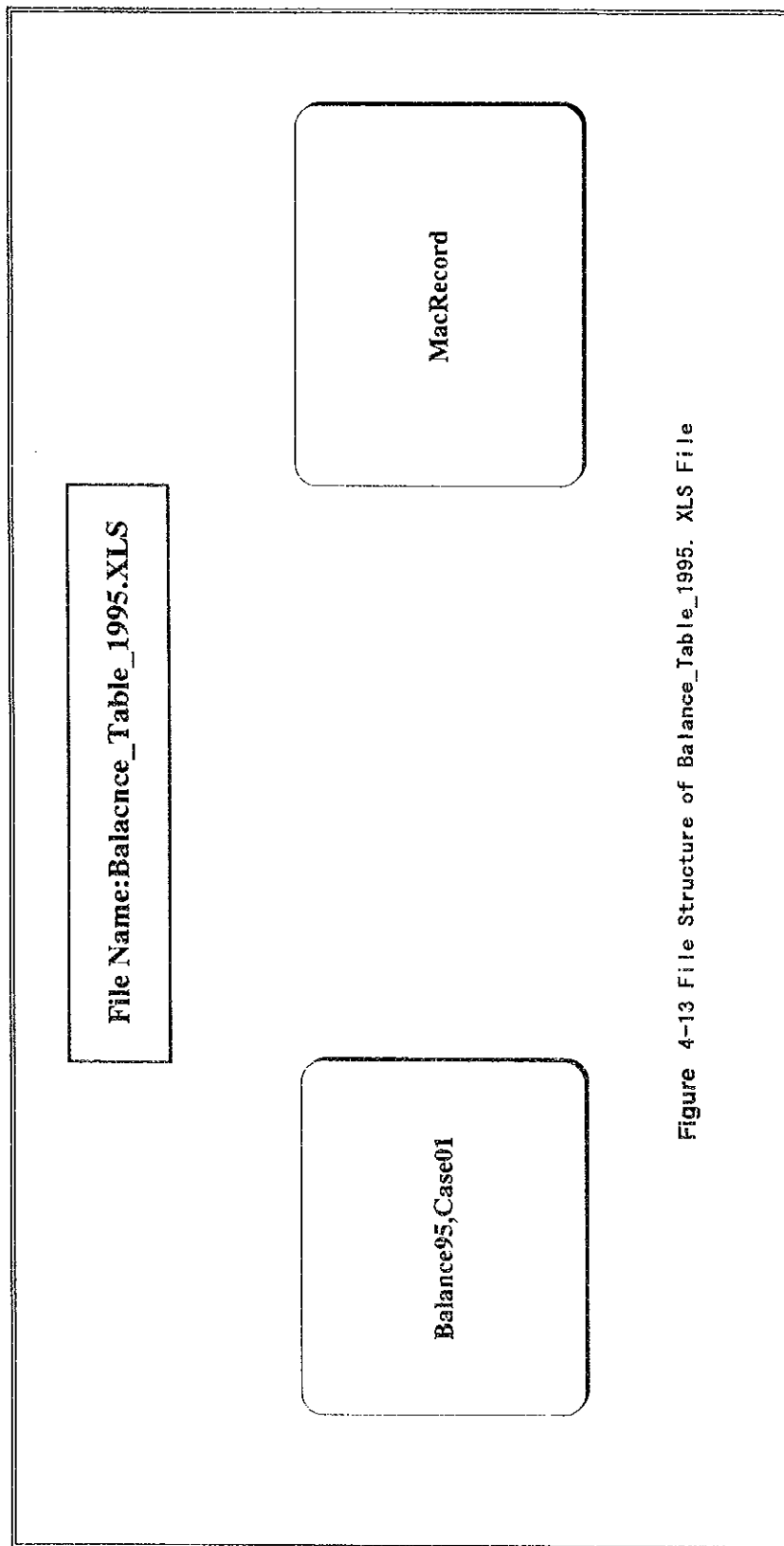


Figure 4-13 File Structure of Balance_Table_1995. XLS File

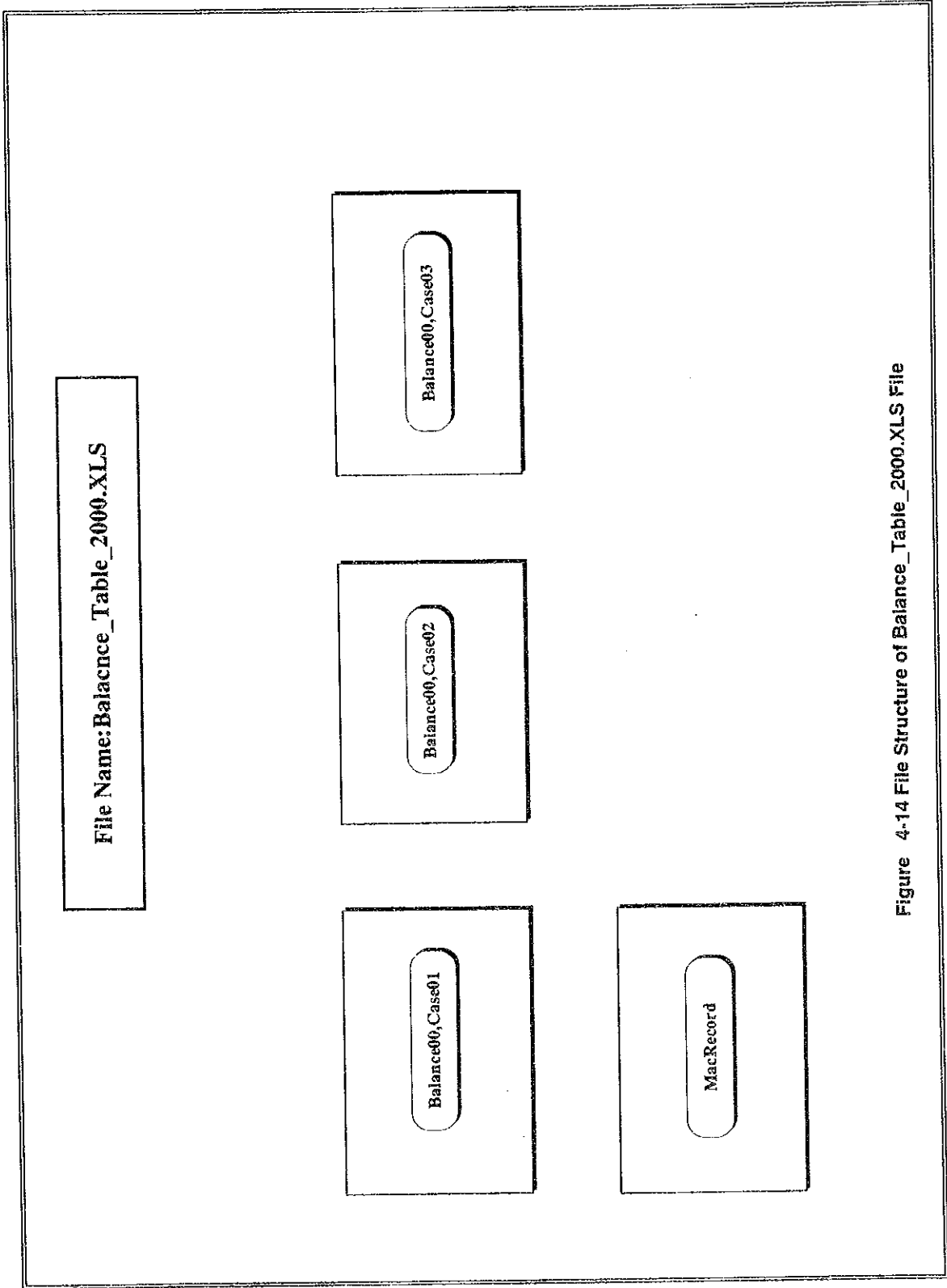


Figure 4-14 File Structure of Balance_Table_2000.XLS File

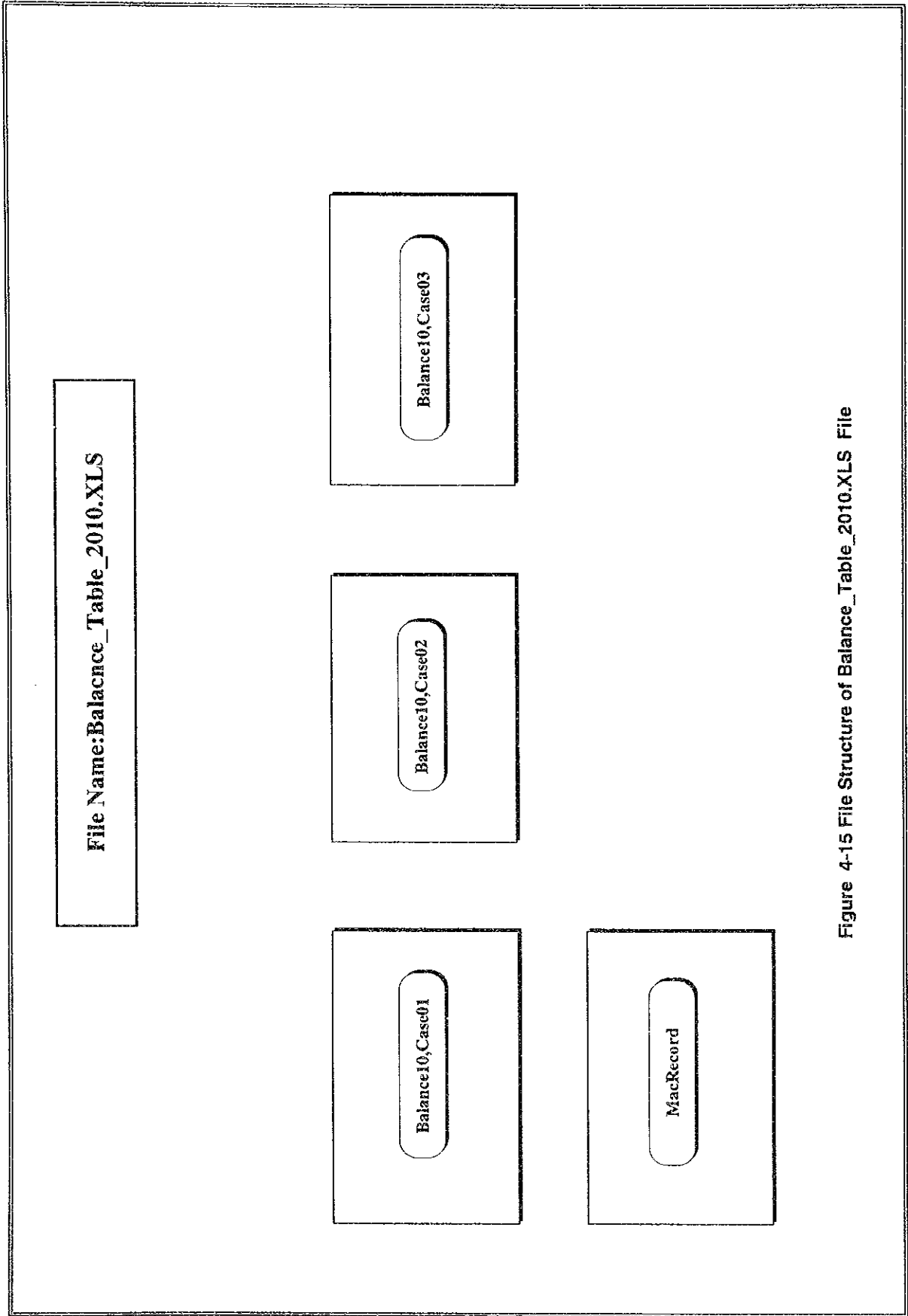


Figure 4-15 File Structure of Balance_Table_2010.XLS File

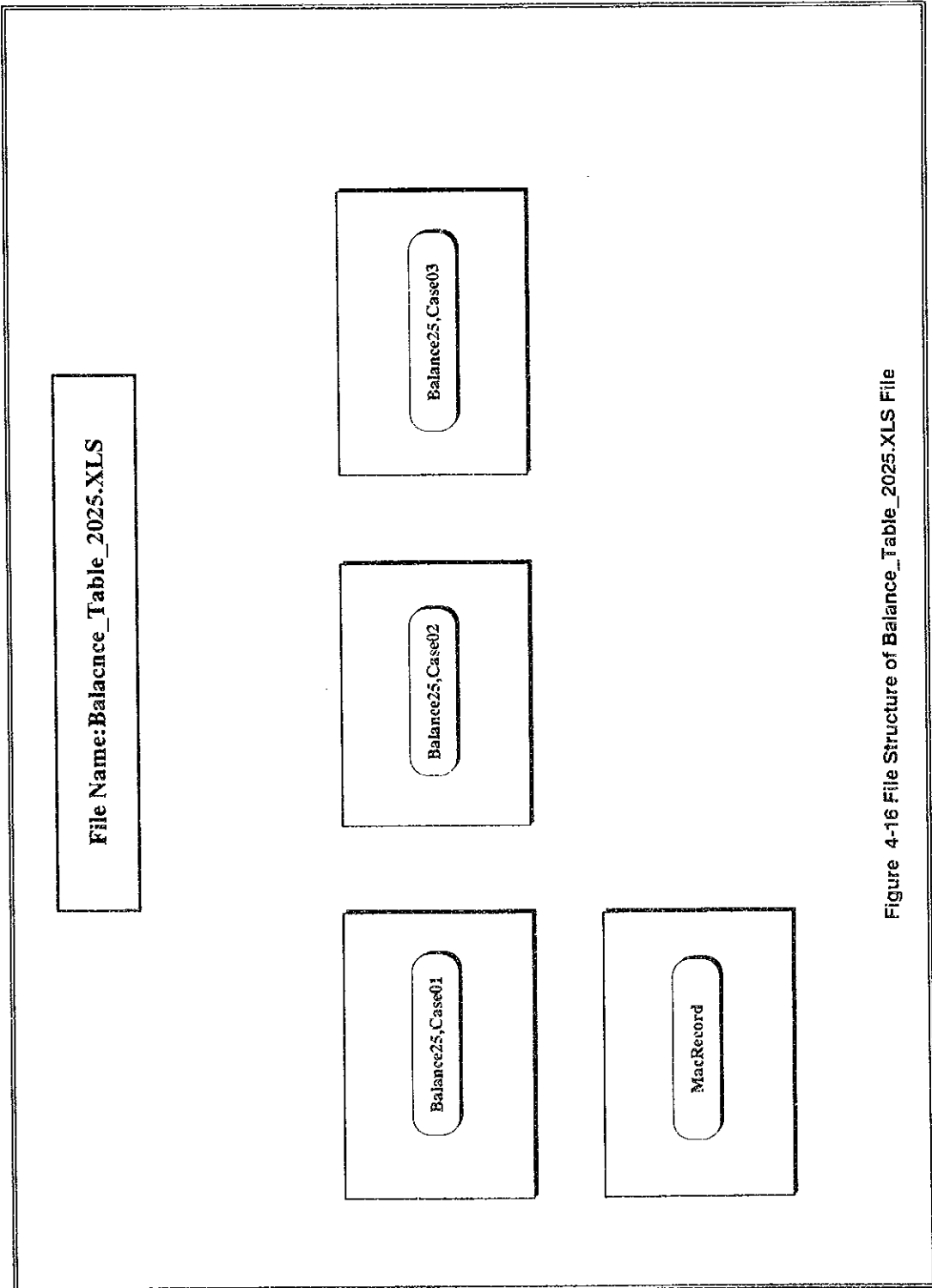


Figure 4-16 File Structure of Balance_Table_2025.XLS File

Figure 4-17 Structure of Database File

