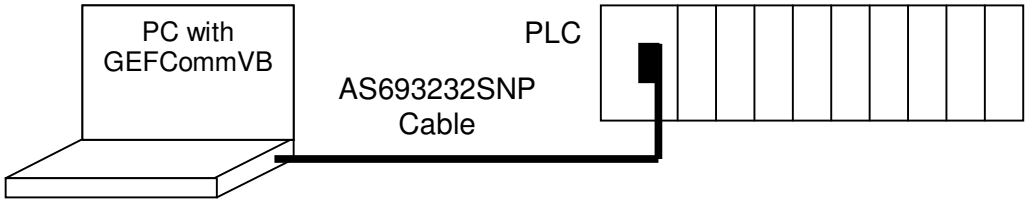
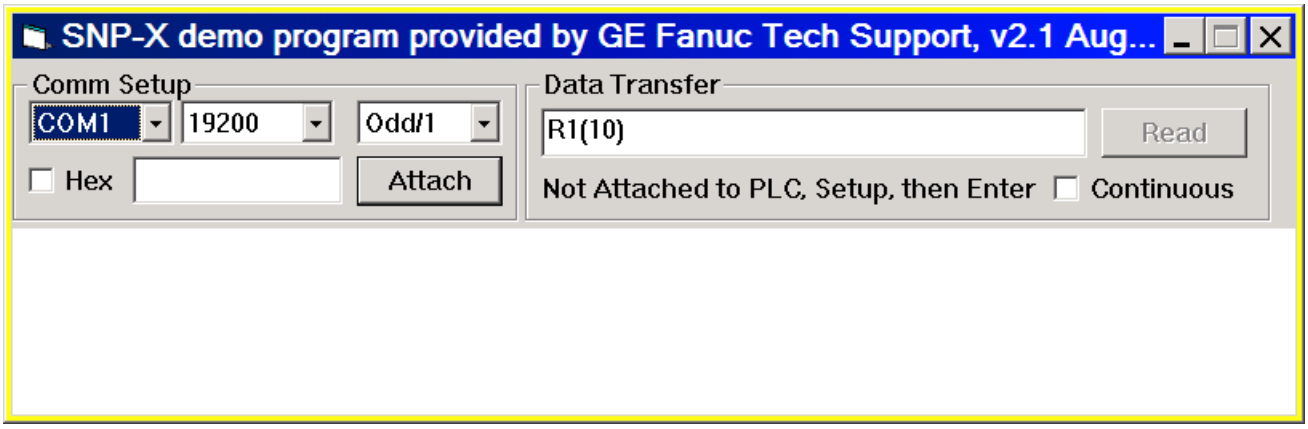
Instructions to extract the Fault Log from a GE 9030 PLC using GEFCommVB.

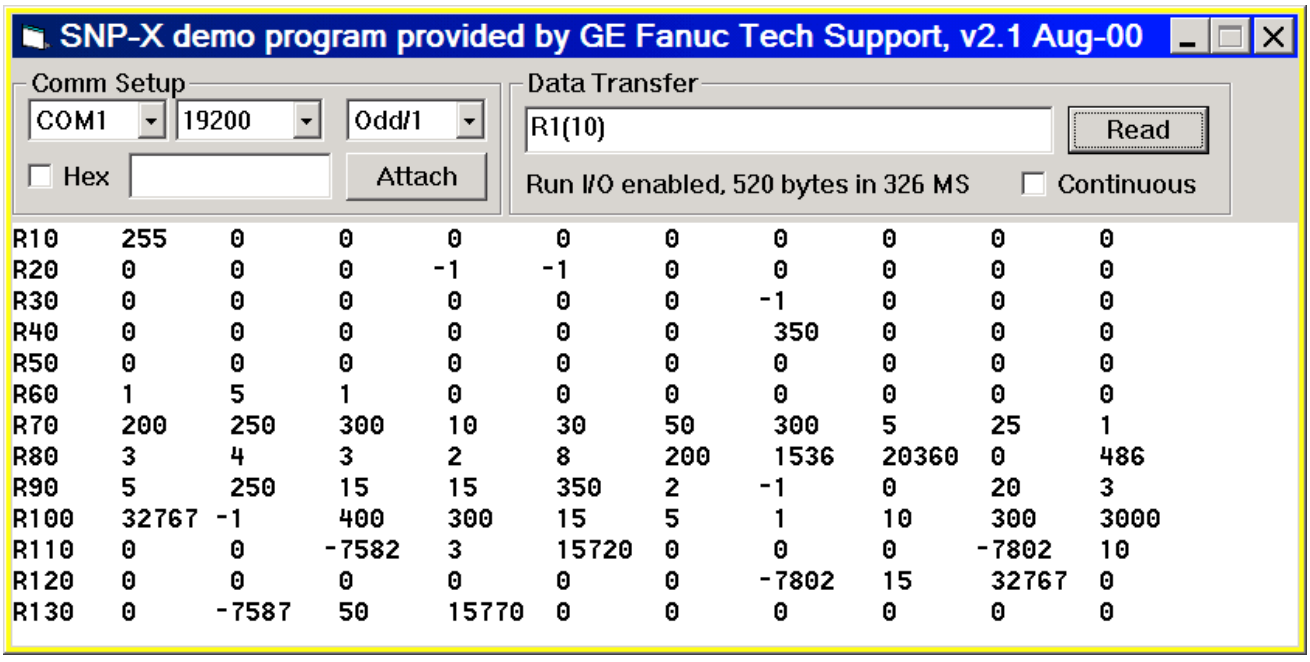
1. Power up the computer with GEFCommVB installed.
2. Connect the communication cable (AS693232SNP) from the PC to the D15 connector on the front of the GE 9030 PLC Power Supply.
   If the system has multiple racks, connect the cable to the top rack (next to the CPU Module).
   If it is necessary to use a converter at the PC end to convert from a USB port to a D9 pin port, make sure the port is set as COM1.



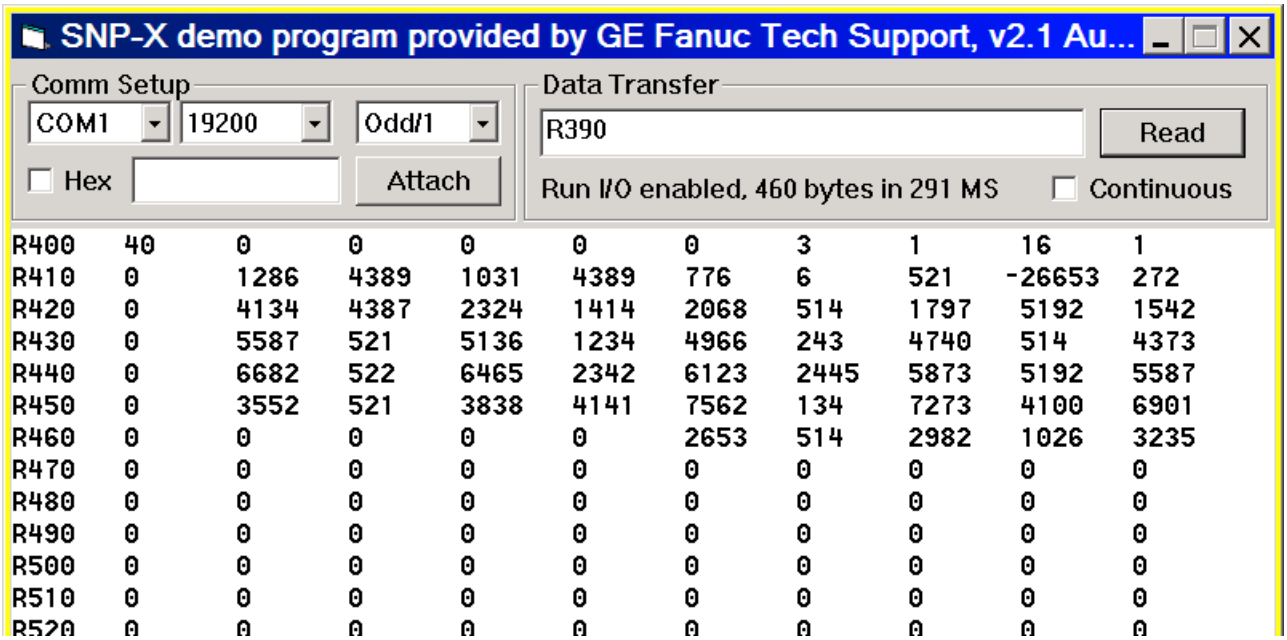
3. Start the GEFCommVB software. Verify the settings are as shown in the screen shot below. The Comm Setup must show the COM port that matches the communication cable.



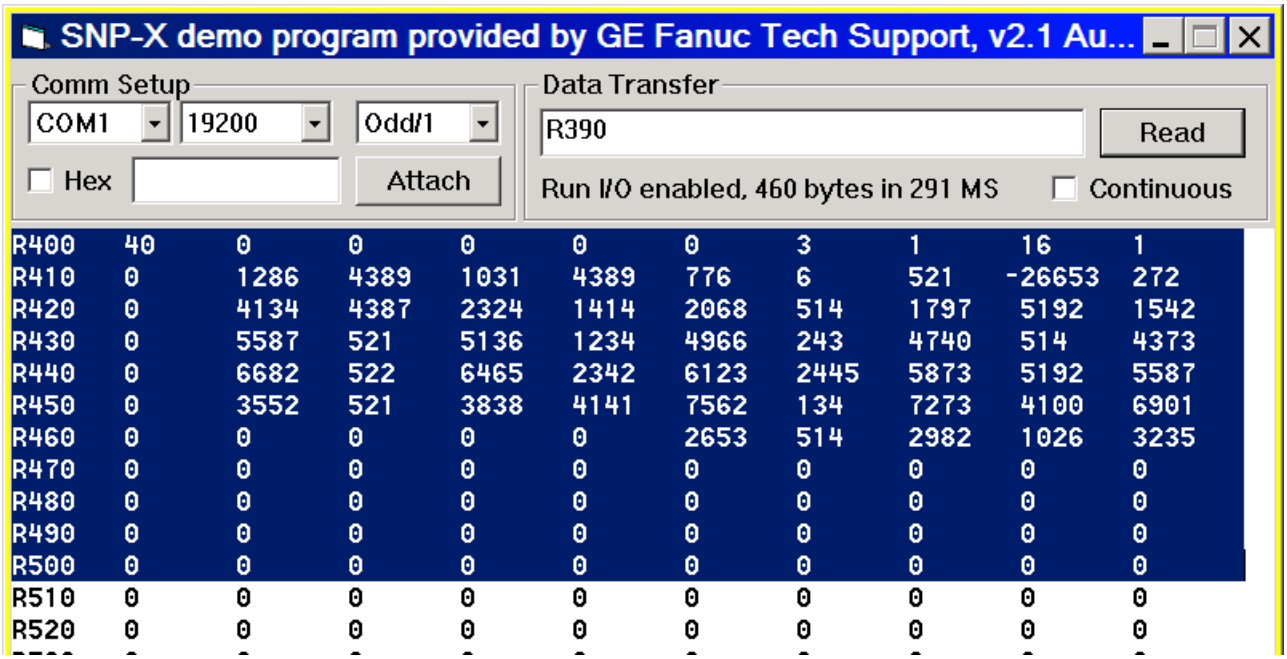
4. Click the “Attach” button. The software will read the data from the PLC and display it on the screen. Expand the screen so that on the left hand column you can see from R10 to at least R120.



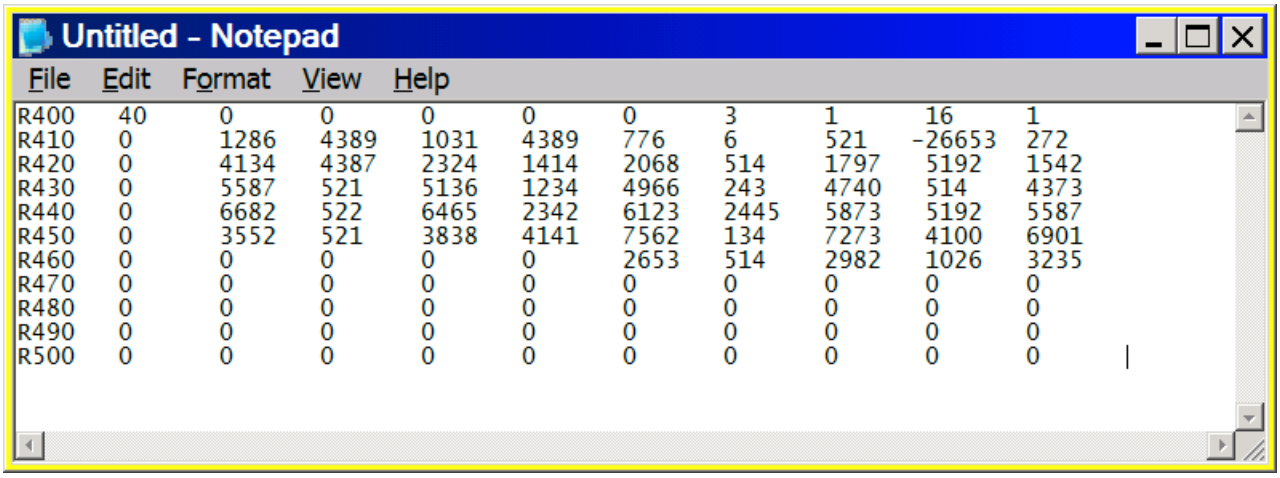
5. Change the value in the Data Transfer box to “R390” and click on the “Read” button.
   The data shown here is simulated, and does not represent real faults.
   If you cannot see from R400 to R500 then expand the screen and click on “Read” again.



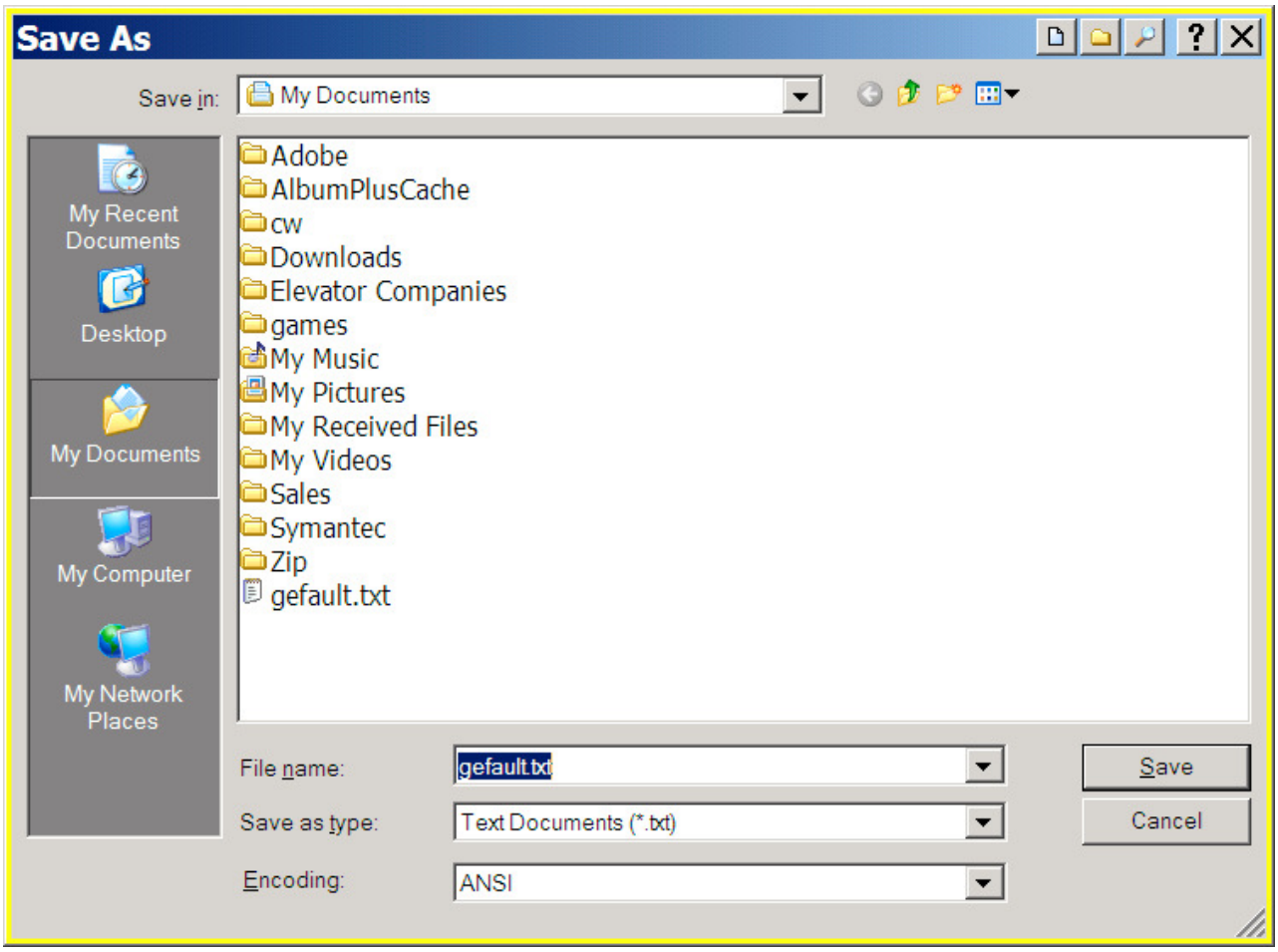
6. Highlight the data for lines R400 to R500 and press Ctrl+C to copy it to the Clipboard.



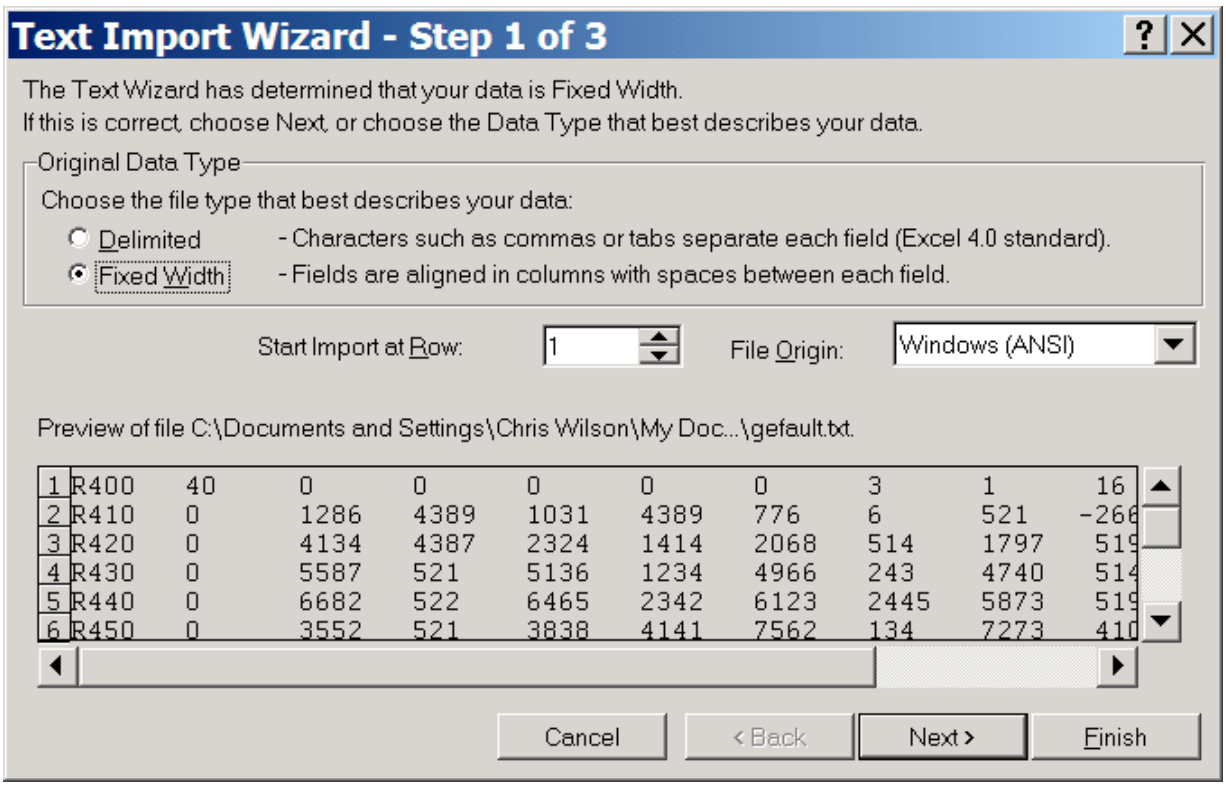
7. Open an empty text document and paste the data from the clipboard into the document.



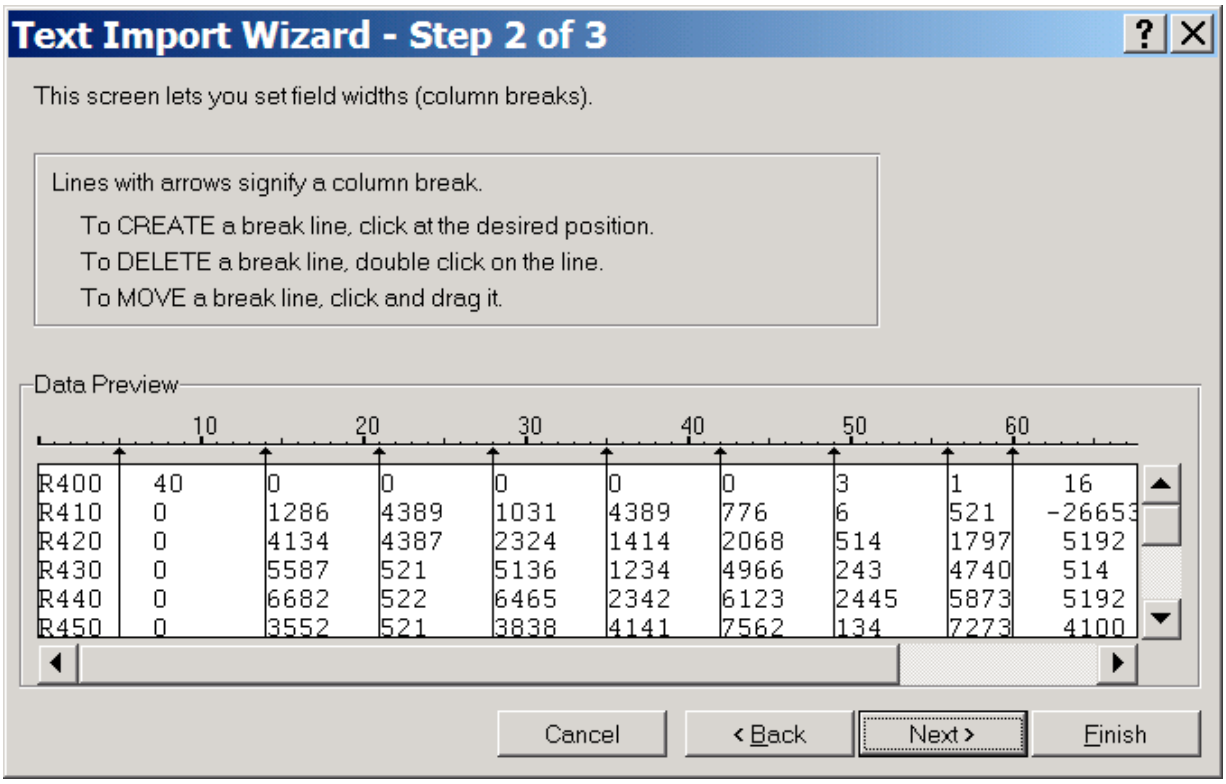
8. Save the file as something you can find and remember, such as “gefault.txt” in “My Documents”. The name and location is not critical, but you must be able to find it in the next steps.



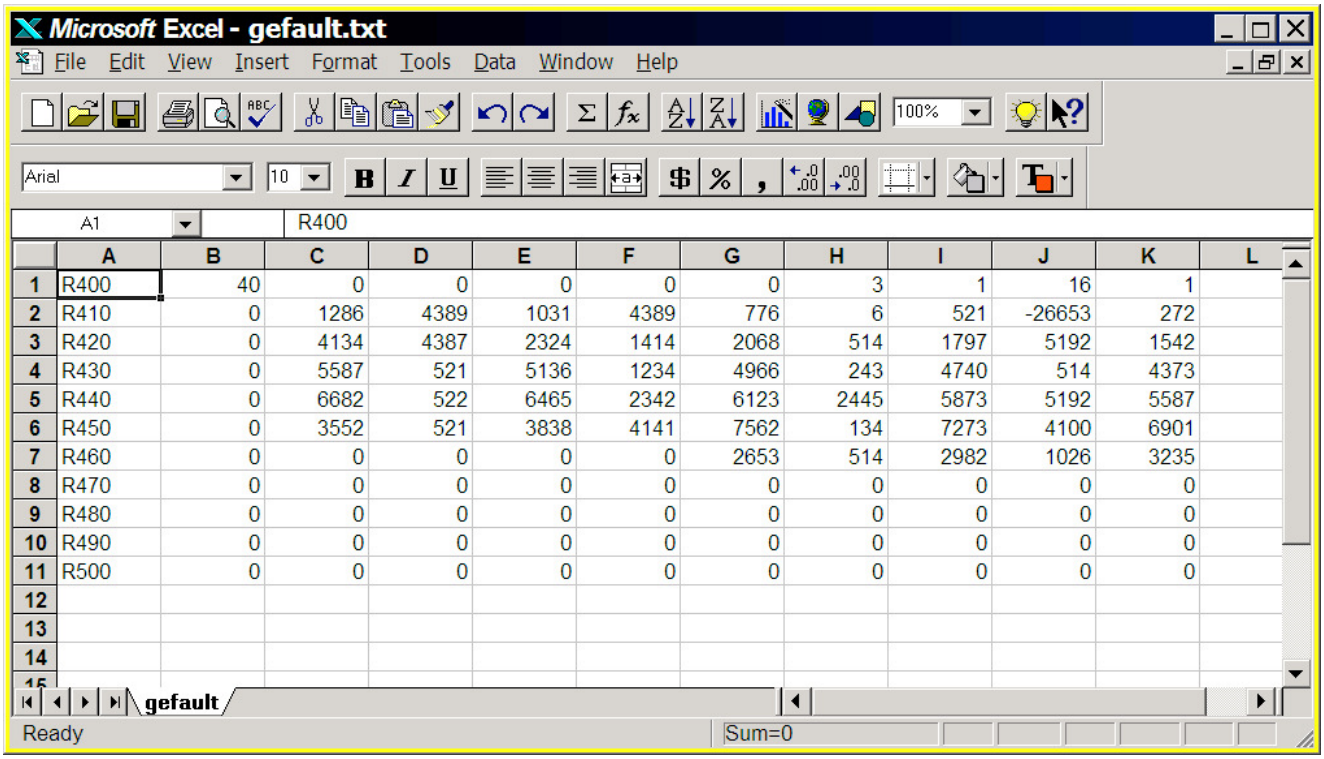
9. Start Microsoft Excel and click File then Open. Select the file that was saved in the previous step. If you used a different file name or location, locate and open the file you saved in the previous step.
   A Wizard will start that allows you to import the file properly. In the first step, make sure “Fixed Width” is selected, and Start Import at Row is set to 1. Click on Next for the next screen.



10. In step 2 the columns should be set automatically as shown below.

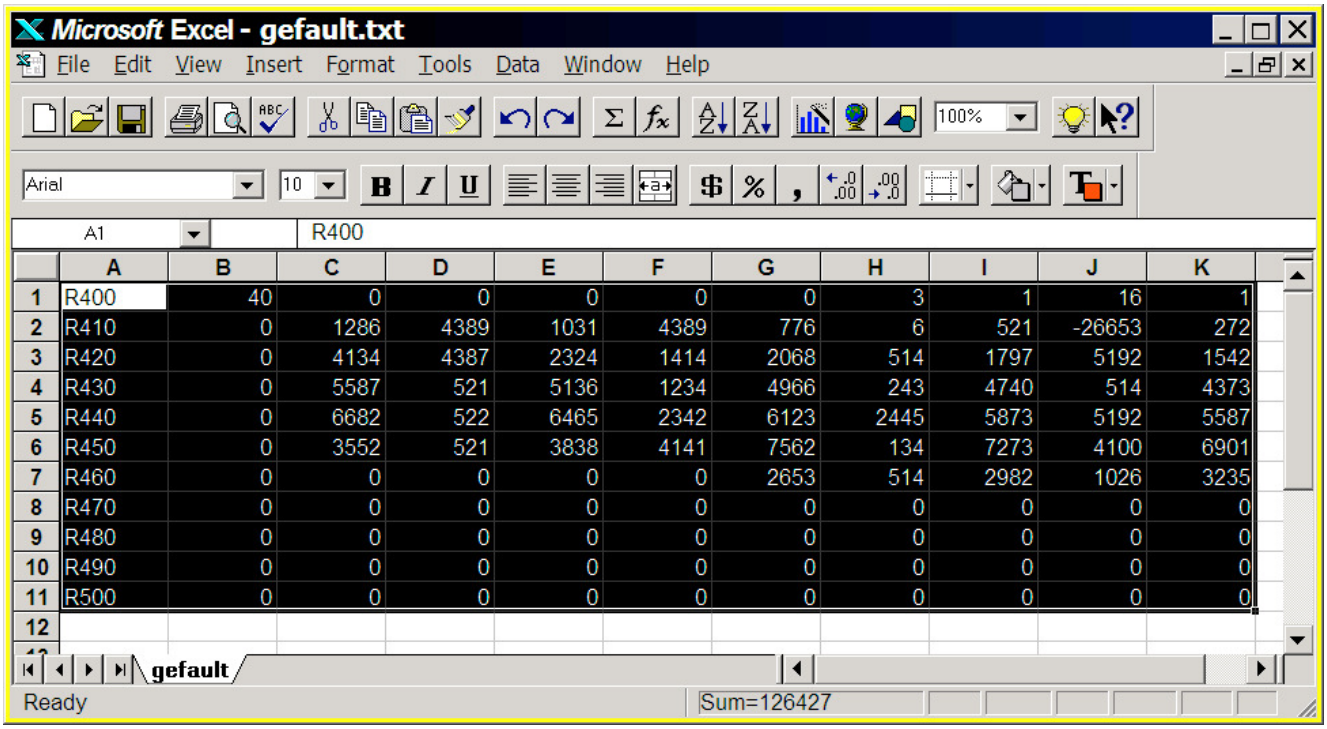


11. Step 3 of the Text Import Wizard is not required, so click on “Finish”.
    The imported data will be shown.



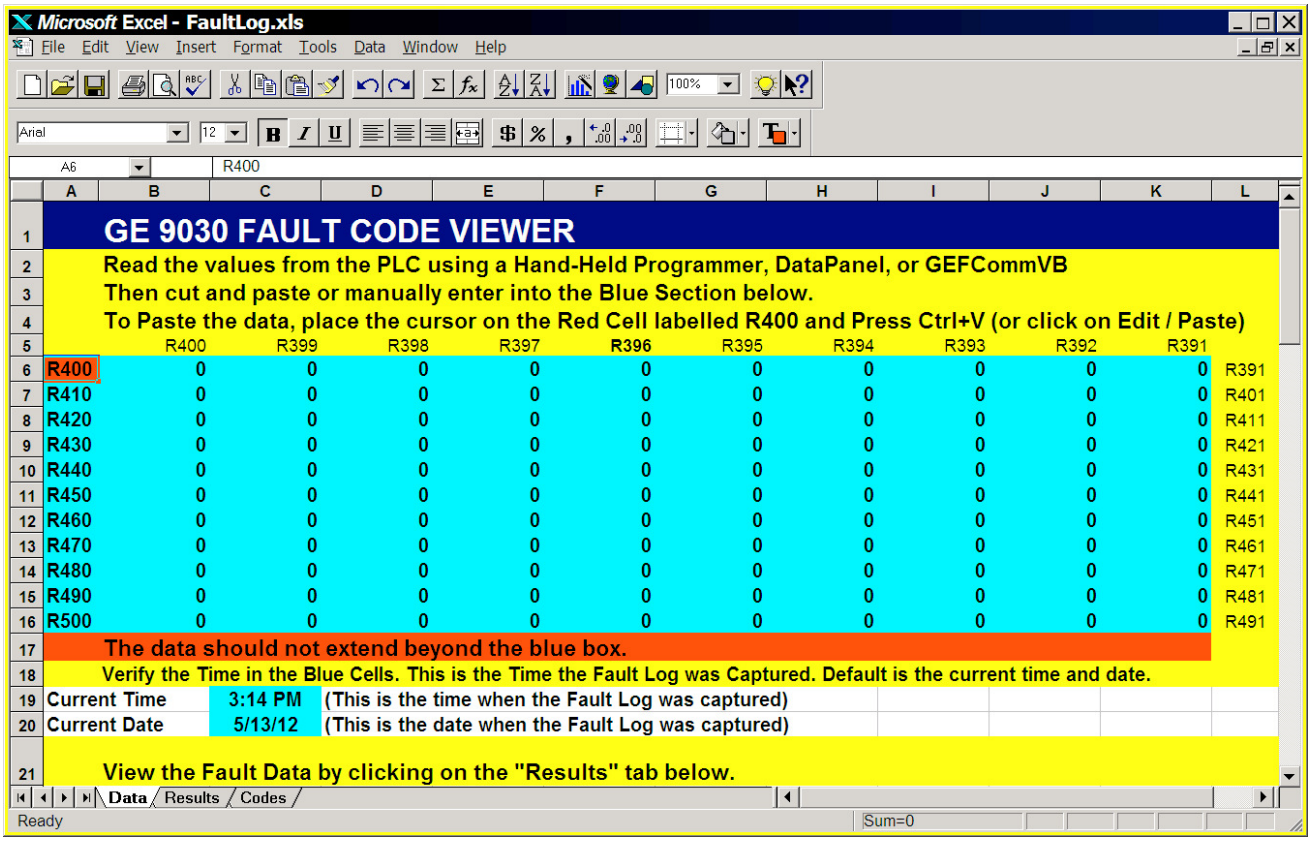
	A	B	C	D	E	F	G	H	I	J	K	L
1	R400	40	0	0	0	0	0	3	1	16	1	
2	R410	0	1286	4389	1031	4389	776	6	521	-26653	272	
3	R420	0	4134	4387	2324	1414	2068	514	1797	5192	1542	
4	R430	0	5587	521	5136	1234	4966	243	4740	514	4373	
5	R440	0	6682	522	6465	2342	6123	2445	5873	5192	5587	
6	R450	0	3552	521	3838	4141	7562	134	7273	4100	6901	
7	R460	0	0	0	0	0	2653	514	2982	1026	3235	
8	R470	0	0	0	0	0	0	0	0	0	0	
9	R480	0	0	0	0	0	0	0	0	0	0	
10	R490	0	0	0	0	0	0	0	0	0	0	
11	R500	0	0	0	0	0	0	0	0	0	0	
12												
13												
14												

12. Open the file FaultLog,xls from inside Excel by clicking on File / Open then selecting FaultLog.xls.
    Go back to gefault.txt, by clicking on Window / gefault.txt.
    Select the data by clicking and dragging from cell A1 to K11.
    Then press Ctrl+C to copy the data to the clipboard.



	A	B	C	D	E	F	G	H	I	J	K
1	R400	40	0	0	0	0	0	3	1	16	1
2	R410	0	1286	4389	1031	4389	776	6	521	-26653	272
3	R420	0	4134	4387	2324	1414	2068	514	1797	5192	1542
4	R430	0	5587	521	5136	1234	4966	243	4740	514	4373
5	R440	0	6682	522	6465	2342	6123	2445	5873	5192	5587
6	R450	0	3552	521	3838	4141	7562	134	7273	4100	6901
7	R460	0	0	0	0	0	2653	514	2982	1026	3235
8	R470	0	0	0	0	0	0	0	0	0	0
9	R480	0	0	0	0	0	0	0	0	0	0
10	R490	0	0	0	0	0	0	0	0	0	0
11	R500	0	0	0	0	0	0	0	0	0	0
12											

13. Go to the FaultLog.xls file by clicking Windows then FaultLog.xls.



Microsoft Excel - FaultLog.xls

File Edit View Insert Format Tools Data Window Help

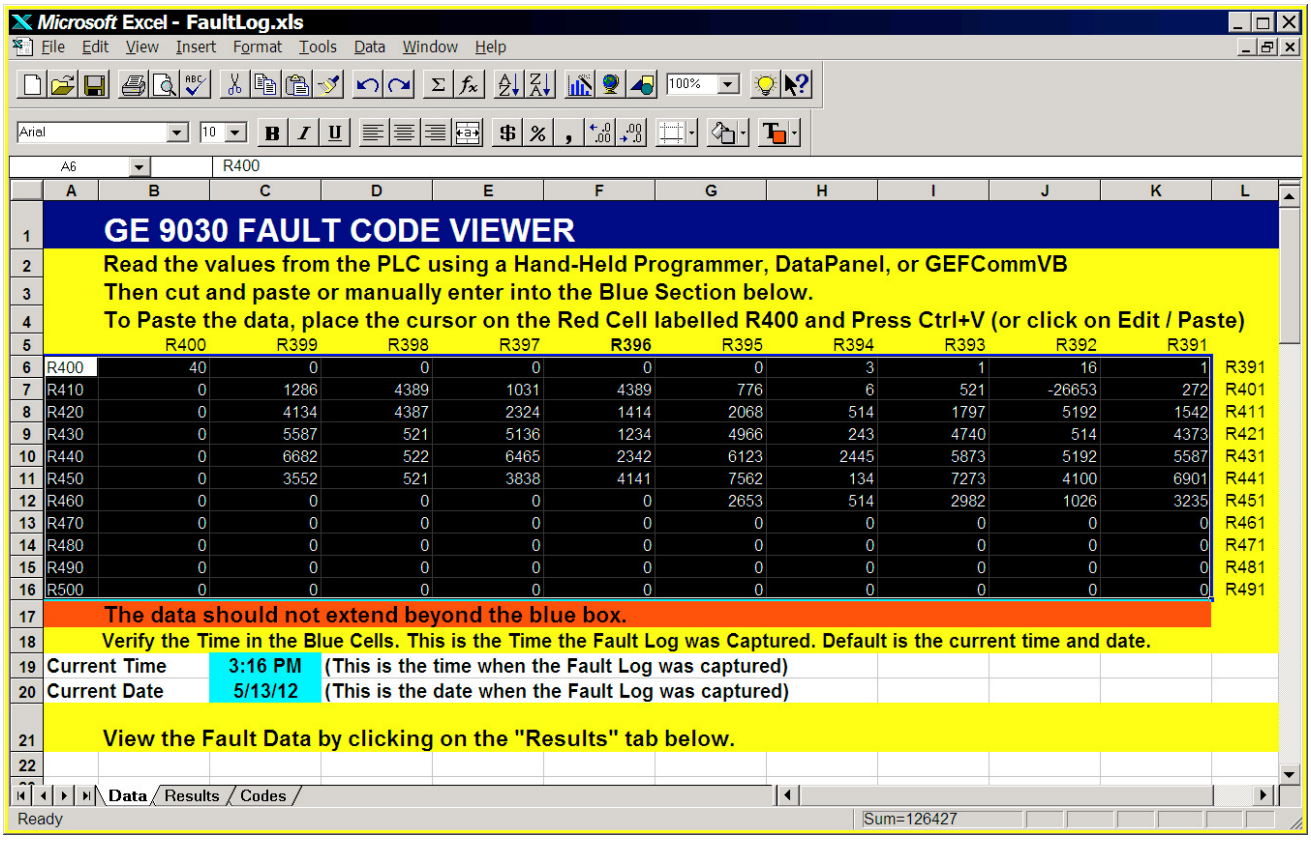
Arial 12 — A6 — R400

	A	B	C	D	E	F	G	H	I	J	K	L
1	**GE 9030 FAULT CODE VIEWER**											
2	Read the values from the PLC using a Hand-Held Programmer, DataPanel, or GEFCommVB											
3	Then cut and paste or manually enter into the Blue Section below.											
4	To Paste the data, place the cursor on the Red Cell labelled R400 and Press Ctrl+V (or click on Edit / Paste)											
5		R400	R399	R398	R397	R396	R395	R394	R393	R392	R391	
6	R400	0	0	0	0	0	0	0	0	0	0	R391
7	R410	0	0	0	0	0	0	0	0	0	0	R401
8	R420	0	0	0	0	0	0	0	0	0	0	R411
9	R430	0	0	0	0	0	0	0	0	0	0	R421
10	R440	0	0	0	0	0	0	0	0	0	0	R431
11	R450	0	0	0	0	0	0	0	0	0	0	R441
12	R460	0	0	0	0	0	0	0	0	0	0	R451
13	R470	0	0	0	0	0	0	0	0	0	0	R461
14	R480	0	0	0	0	0	0	0	0	0	0	R471
15	R490	0	0	0	0	0	0	0	0	0	0	R481
16	R500	0	0	0	0	0	0	0	0	0	0	R491
17	The data should not extend beyond the blue box.											
18	Verify the Time in the Blue Cells. This is the Time the Fault Log was Captured. Default is the current time and date.											
19	Current Time	3:14 PM	(This is the time when the Fault Log was captured)									
20	Current Date	5/13/12	(This is the date when the Fault Log was captured)									
21	View the Fault Data by clicking on the "Results" tab below.											

Data / Results / Codes

Ready — Sum=0

14. With the cursor on cell A6, copy the data from the clipboard. The data will fill the blue box.



Microsoft Excel - FaultLog.xls

File Edit View Insert Format Tools Data Window Help

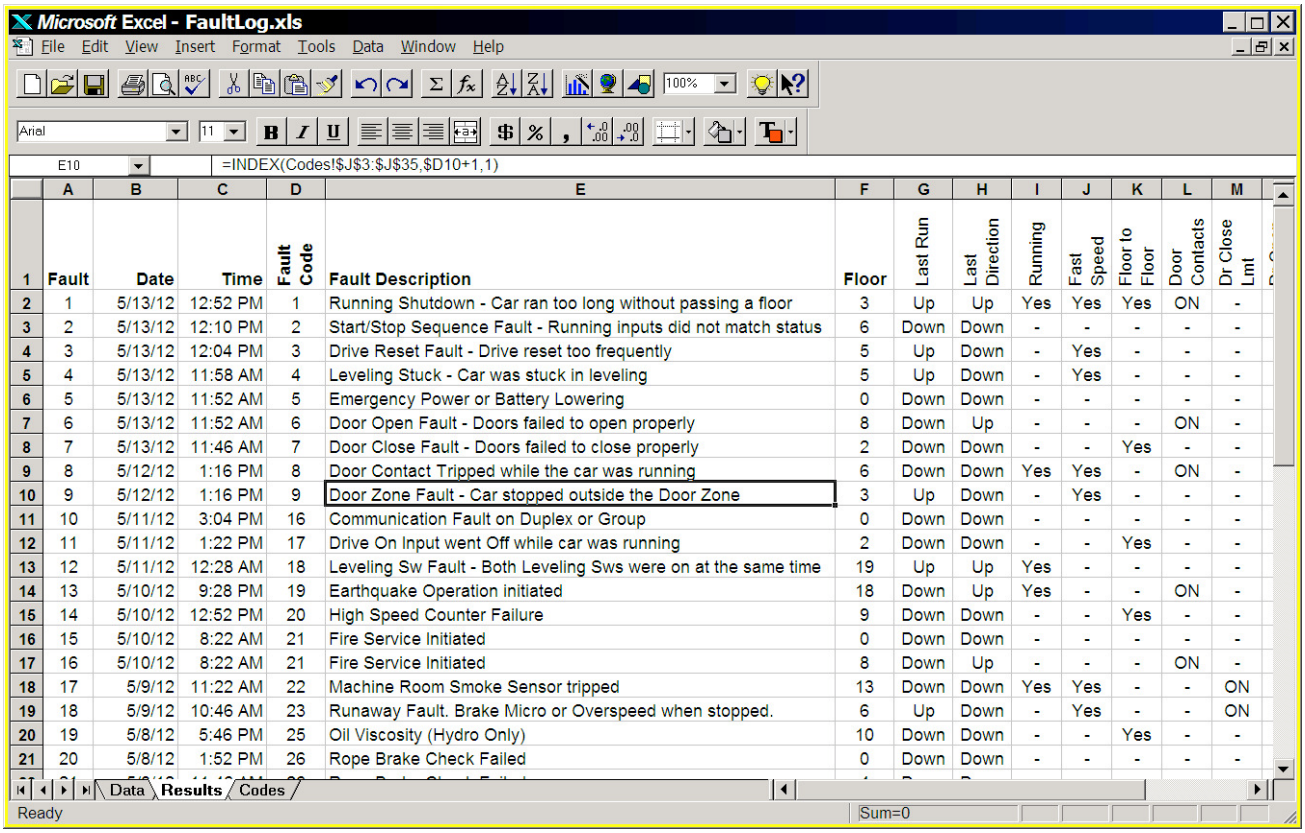
Arial 10 — A6 — R400

	A	B	C	D	E	F	G	H	I	J	K	L
1	**GE 9030 FAULT CODE VIEWER**											
2	Read the values from the PLC using a Hand-Held Programmer, DataPanel, or GEFCommVB											
3	Then cut and paste or manually enter into the Blue Section below.											
4	To Paste the data, place the cursor on the Red Cell labelled R400 and Press Ctrl+V (or click on Edit / Paste)											
5		R400	R399	R398	R397	R396	R395	R394	R393	R392	R391	
6	R400	40	0	0	0	0	0	3	1	16	1	R391
7	R410	0	1286	4389	1031	4389	776	6	521	-26653	272	R401
8	R420	0	4134	4387	2324	1414	2068	514	1797	5192	1542	R411
9	R430	0	5587	521	5136	1234	4966	243	4740	514	4373	R421
10	R440	0	6682	522	6465	2342	6123	2445	5873	5192	5587	R431
11	R450	0	3552	521	3838	4141	7562	134	7273	4100	6901	R441
12	R460	0	0	0	0	0	2653	514	2982	1026	3235	R451
13	R470	0	0	0	0	0	0	0	0	0	0	R461
14	R480	0	0	0	0	0	0	0	0	0	0	R471
15	R490	0	0	0	0	0	0	0	0	0	0	R481
16	R500	0	0	0	0	0	0	0	0	0	0	R491
17	The data should not extend beyond the blue box.											
18	Verify the Time in the Blue Cells. This is the Time the Fault Log was Captured. Default is the current time and date.											
19	Current Time	3:16 PM	(This is the time when the Fault Log was captured)									
20	Current Date	5/13/12	(This is the date when the Fault Log was captured)									
21	View the Fault Data by clicking on the "Results" tab below.											
22												

Data / Results / Codes

Ready — Sum=126427

15. The data will be de-coded automatically, and the fault codes, times and status can be viewed by clicking on the “Results” tab at the bottom of the Excel window.



Microsoft Excel - FaultLog.xls

File Edit View Insert Format Tools Data Window Help

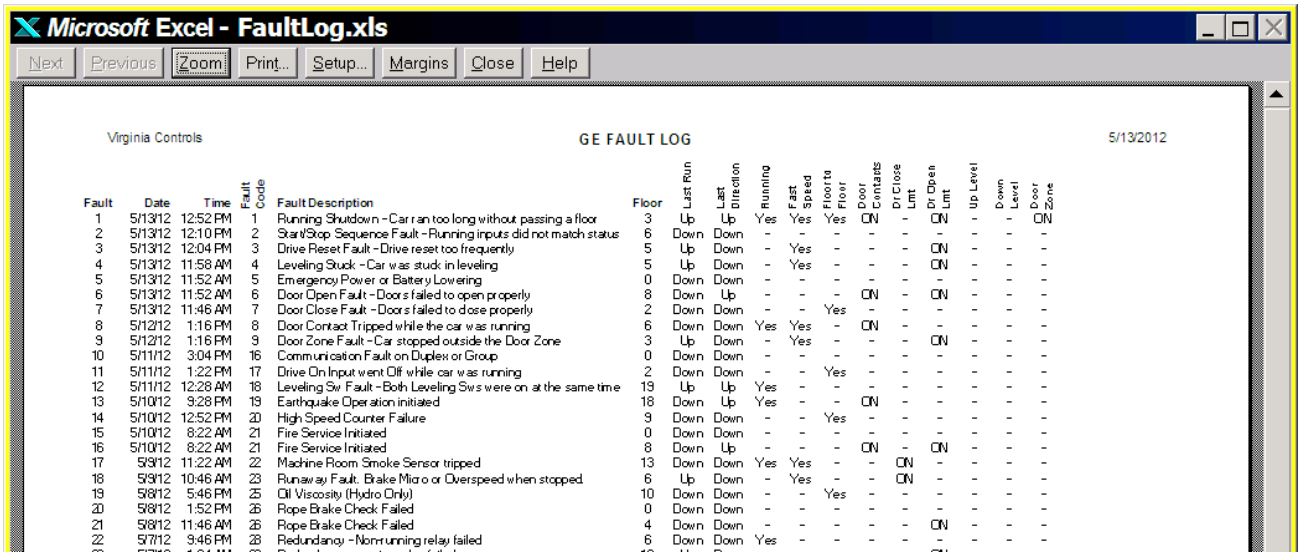
E10 =INDEX(Codes!$J$3:$J$35,$D10+1,1)

	Fault	Date	Time	Fault Code	Fault Description	Floor	Last Run	Last Direction	Running	Fast Speed	Floor to Floor	Door Contacts	Dr Close Lmt
2	1	5/13/12	12:52 PM	1	Running Shutdown - Car ran too long without passing a floor	3	Up	Up	Yes	Yes	Yes	ON	-
3	2	5/13/12	12:10 PM	2	Start/Stop Sequence Fault - Running inputs did not match status	6	Down	Down	-	-	-	-	-
4	3	5/13/12	12:04 PM	3	Drive Reset Fault - Drive reset too frequently	5	Up	Down	-	Yes	-	-	-
5	4	5/13/12	11:58 AM	4	Leveling Stuck - Car was stuck in leveling	5	Up	Down	-	Yes	-	-	-
6	5	5/13/12	11:52 AM	5	Emergency Power or Battery Lowering	0	Down	Down	-	-	-	-	-
7	6	5/13/12	11:52 AM	6	Door Open Fault - Doors failed to open properly	8	Down	Up	-	-	-	ON	-
8	7	5/13/12	11:46 AM	7	Door Close Fault - Doors failed to close properly	2	Down	Down	-	-	Yes	-	-
9	8	5/12/12	1:16 PM	8	Door Contact Tripped while the car was running	6	Down	Down	Yes	Yes	-	ON	-
10	9	5/12/12	1:16 PM	9	Door Zone Fault - Car stopped outside the Door Zone	3	Up	Down	-	Yes	-	-	-
11	10	5/11/12	3:04 PM	16	Communication Fault on Duplex or Group	0	Down	Down	-	-	-	-	-
12	11	5/11/12	1:22 PM	17	Drive On Input went Off while car was running	2	Down	Down	-	-	Yes	-	-
13	12	5/11/12	12:28 AM	18	Leveling Sw Fault - Both Leveling Sws were on at the same time	19	Up	Up	Yes	-	-	-	-
14	13	5/10/12	9:28 PM	19	Earthquake Operation initiated	18	Down	Up	Yes	-	-	ON	-
15	14	5/10/12	12:52 PM	20	High Speed Counter Failure	9	Down	Down	-	-	Yes	-	-
16	15	5/10/12	8:22 AM	21	Fire Service Initiated	0	Down	Down	-	-	-	-	-
17	16	5/10/12	8:22 AM	21	Fire Service Initiated	8	Down	Up	-	-	-	ON	-
18	17	5/9/12	11:22 AM	22	Machine Room Smoke Sensor tripped	13	Down	Down	Yes	Yes	-	-	ON
19	18	5/9/12	10:46 AM	23	Runaway Fault. Brake Micro or Overspeed when stopped.	6	Up	Down	-	Yes	-	-	ON
20	19	5/8/12	5:46 PM	25	Oil Viscosity (Hydro Only)	10	Down	Down	-	-	Yes	-	-
21	20	5/8/12	1:52 PM	26	Rope Brake Check Failed	0	Down	Down	-	-	-	-	-

Data Results Codes

Ready Sum=0

16. To print the fault log, click on Print Preview, and make sure the layout is formatted the way you want (especially the number of pages the information is to be printed on, which determines the size of the printout). Change any settings by clicking on the Setup button.



Microsoft Excel - FaultLog.xls

Next Previous Zoom Print... Setup... Margins Close Help

Virginia Controls

GE FAULT LOG

5/13/2012

Fault	Date	Time	Fault Code	Fault Description	Floor	Last Run	Last Direction	Running	Fast Speed	Floor to Floor	Door Contacts	Dr Close Lmt	Dr Open Lmt	Up Level	Down Level	Door Zone
1	5/13/12	12:52 PM	1	Running Shutdown - Car ran too long without passing a floor	3	Up	Up	Yes	Yes	Yes	ON	-	ON	-	-	ON
2	5/13/12	12:10 PM	2	Start/Stop Sequence Fault - Running inputs did not match status	6	Down	Down	-	-	-	-	-	-	-	-	-
3	5/13/12	12:04 PM	3	Drive Reset Fault - Drive reset too frequently	5	Up	Down	-	Yes	-	-	-	ON	-	-	-
4	5/13/12	11:58 AM	4	Leveling Stuck - Car was stuck in leveling	5	Up	Down	-	Yes	-	-	-	ON	-	-	-
5	5/13/12	11:52 AM	5	Emergency Power or Battery Lowering	0	Down	Down	-	-	-	-	-	-	-	-	-
6	5/13/12	11:52 AM	6	Door Open Fault - Doors failed to open properly	8	Down	Up	-	-	-	ON	-	ON	-	-	-
7	5/13/12	11:46 AM	7	Door Close Fault - Doors failed to close properly	2	Down	Down	-	-	Yes	-	-	-	-	-	-
8	5/12/12	1:16 PM	8	Door Contact Tripped while the car was running	6	Down	Down	Yes	Yes	-	ON	-	-	-	-	-
9	5/12/12	1:16 PM	9	Door Zone Fault - Car stopped outside the Door Zone	3	Up	Down	-	Yes	-	-	-	ON	-	-	-
10	5/11/12	3:04 PM	16	Communication Fault on Duplex or Group	0	Down	Down	-	-	-	-	-	-	-	-	-
11	5/11/12	1:22 PM	17	Drive On Input went Off while car was running	2	Down	Down	-	-	Yes	-	-	-	-	-	-
12	5/11/12	12:28 AM	18	Leveling Sw Fault - Both Leveling Sws were on at the same time	19	Up	Up	Yes	-	-	-	-	-	-	-	-
13	5/10/12	9:28 PM	19	Earthquake Operation initiated	18	Down	Up	Yes	-	-	ON	-	-	-	-	-
14	5/10/12	12:52 PM	20	High Speed Counter Failure	9	Down	Down	-	-	Yes	-	-	-	-	-	-
15	5/10/12	8:22 AM	21	Fire Service Initiated	0	Down	Down	-	-	-	-	-	-	-	-	-
16	5/10/12	8:22 AM	21	Fire Service Initiated	8	Down	Up	-	-	-	ON	-	ON	-	-	-
17	5/9/12	11:22 AM	22	Machine Room Smoke Sensor tripped	13	Down	Down	Yes	Yes	-	-	ON	-	-	-	-
18	5/9/12	10:46 AM	23	Runaway Fault. Brake Micro or Overspeed when stopped.	6	Up	Down	-	Yes	-	-	ON	-	-	-	-
19	5/8/12	5:46 PM	25	Oil Viscosity (Hydro Only)	10	Down	Down	-	-	Yes	-	-	-	-	-	-
20	5/8/12	1:52 PM	26	Rope Brake Check Failed	0	Down	Down	-	-	-	-	-	-	-	-	-
21	5/8/12	11:46 AM	26	Rope Brake Check Failed	4	Down	Down	-	-	-	-	-	ON	-	-	-
22	5/7/12	9:46 PM	28	Redundancy - Non-running relay failed	6	Down	Down	Yes	-	-	-	-	-	-	-	-

17. When closing the FaultLog.xls it is recommended that if you want to save the data, then change the filename using Save As. You could use FaultLog_date.xls where date is replaced by the date of the fault log. (e.g. FaultLog_2012_05_16.xls).