CAP88-PC V4 TRAINING Module 2.4

Reports and Error Logging





Flow of Operation: Build Dataset using UI > Save Dataset > Generate Reports

•	CAP88-PC - [Dataset Edit - Modtest.dat*]
P	Eile Tools Window Help
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	Dataset Facility Population Meteorological Sources Agricultural Nuclides Reports
	Generate Print © Current Synopsis General Weather Image: Selected D/R Summaries D/R Factors Concentration Chi/Q
	Reports can take several minutes to generate
	Generate Reports Button Executes Code
	Dataset changes must be saved before generating reports.
	ОК
	Note the automatic changes!
	ERRORS CHANGES PopulationFileName was 'a lusars will did outments \cap 98\population_files \ports_poi
	WindFileName was 'e:\users\willdhdocuments\cap88\wind files\ports30.wnd", is no





Saving the File Before Running the Code





Saving the File Before Running the Code









EXAMINING REPORTS

CAP88-PC - [Dataset Edit - Modtest.dat]	
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Dataset Facility Population Meteorological Sources Agricultural Nuclides Reports	
Generate Print Image: Current image	
Reports can take several minutes to generate	
Synopsis General Weather D/R Summaries D/R Factors Concentration Chi/Q	
CAP88-PC	
Version 4.0 List of available re	port
Clean Air Act Assessment Package - 1988	
SYNOPSIS REPORT	
Non-Radon Population Assessment	
Thu Jun 13 13:14:43 2013	
Facility: CAP88-PC Version 3	
Address: 1111 Simulation Dr	
ERRORS CHANGES	





WHICH REPORTS GENERATE?

un Type	Population		Population /	arces Agricult Age Adult	ural Nuclides	Reports Build up time 100 (*) years
files with files with	* are in the same ! are in a non-de	e folder as the dat fault folder	taset			Create dose and risk summaries
C:\Users\	rwood\Docume	nts\CAP88\Popu	lation Files\ports.p	юр		Create dose and risk factors Create concentration table
le	ports		Portsmout	1	•	Create Chi/Q table
lidpoints	10					
- 5	800.00	2400.00	4000.00	5600.00	7250.00	
-10	12100.00	24150.00	40250.00	56350.00	72200.00	
1-15	0.00	0.00	0.00	0.00	0.00	The list of reports that
6-20	0.00	0.00	0.00	0.00	0.00	generate is determined by t
Maximur	m Exposed Indiv	idual				generate is determined by t
Direction	n auto 🔻	Midpoint index	0 - 1	Auto-determine		selections on the Population
						tab
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			CHANG	ES		
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EXAMINING REPORTS

Dat	taset Facility Population N	leteorological Sources Agricultural Nuc	clides Reports	
	Generate	int Current V Synopsis	General Weather D/R Factors Concentration	
Re	eports can take several minutes to ger	lerate		
s	ynopsis General Weather	D/R Summaries D/R Factors Concentrati	on Chi/Q	
	DOSE	AND RISK SUMMARIE	<u>^</u>	
	No	n-Radon Population Assessment		
		Thu Jun 13 13:14:43 2013	Print currently	y viewed rep
			a selected set	of reports
	Facility: CAP88-	PC Version 3		
	Address: 1111 S	imulation Dr		
	City: Portsm	outh		10.5
	State: OH	Zip: 45111		
	Source Category: Sing	Le Stack		1 CON
	Emission Year: 2012	~		and the second
	DOSE Age Group: Adul	t.		
	Comments: Modt	est problem	.	
	RORS	CHANGES		



EXAMINING REPORTS

CAP88-PC - [Dataset Edit - Modtest.dat]
Eile Tools Window Help
Dataset Facility Population Meteorological Sources Agricultural Nuclides Reports
Generate Print Image: Current image
Reports can take several minutes to generate
Synopsis General Weather D/R Summaries D/R Factors Concentration Chi/Q
DOSE AND RISK SUMMARIES
Assessment
General
Select Printer
Phaser 7100N PS Send To OneNote 2013 XRX0000AAD8B3FB PS XRX0000AAD8B3FB PS XRX0000AAD8B3FB PS
✓
Status: Ready Print to file Preferences
Comment:
Page Range
All Number of <u>copies</u> : 1
Selection Current Page
Print Cancel Apply
Trinity Engineering Associates United States Environmental Protection Agency



USING REPORTS

Reports are written to the dataset file folder as ASCII text files

C v Libraries + Documents +	Cap88 Datasets Modtest
Organize 🔻 Share with 🔻 Burn	New folder 🔠 👻 🗍 🔞
 ☆ Favorites ℬ Recently Changed ➡ Public ➡ Desktop 	Documents library Arrange by: Folder ▼ Modtest Name
 Downloads Recent Places Recorded TV Public Downloads SkyDrive 	 Modtest.WEA Modtest.CHI Modtest.CON Modtest.dat Modtest.FAC I have defined these Modtest.GEN extensions in Windows
 Libraries Kom1 Local Disk (C:) Disk1 (D:) My Book (F:) DVD Drive (G:) 15.0.4420.1017 	Modtest.SUM Modtest.SYN Modtest.SYN Notepad
8 items	





REPORTS – ASCII EDITOR

Modtest.SYN - Notepad

<u>File Edit Format View H</u>elp CAP 8 8 - P C

version 4.0

Clean Air Act Assessment Package - 1988

SYNOPSIS REPORT

Non-Radon Population Assessment Thu Jun 13 13:14:43 2013

Facility: CAP88-PC Version 3 Address: 1111 Simulation Dr City: Portsmouth State: OH Zip: 45111

Source Category: Single Stack Source Type: Stack Emission Year: 2012 DOSE Age Group: Adult

Comments: Modtest problem for Version 4 User Manual

Committed Effective Dose Equivalent (mrem)

3.59E+02

At This Location: 800 Meters East Northeast

Dataset Name: Modtest. Dataset Date: Jun 13, 2013 01:14 PM Wind File: C:\Users\rwood\Documents\CAP88\Wind Files\ports30.wnd p File: C:\Users\rwood\Documents\CAP88\Population Files\ports.pop Thu Jun 13 13:14:43 2013 SYNOPSIS

Page 1

MAXIMALLY EXPOSED INDIVIDUAL

Location Of The Individual: 800 Meters East Northeast Lifetime Fatal Cancer Risk: 1.23E-04

> ORGAN DOSE EQUIVALENT SUMMARY (RN-222 Working Level Calculations Excluded)

Notepad opens the report as a continuous text file

Does not recognize page break

ASCII format is useful as input to post-processing routines





REPORTS – WORD PROCESSOR





Reports cannot be generated until the dataset is saved if any changes are made

The list of generated reports is defined in the Population tab - You must edit the case to change the list

Reports are written to the dataset folder

Reports are written as ASCII text files with some formatting information





ERROR REPORTING

Error Log Locations







MIGRATION ERRORS

CAP88-PC - [Migrate Files]		
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🗄 🗋 🕶 🚰 🕶 🔜 🔜 🛤 🏪 🛛 🎯 🛛		
This utility migrates your 12/9/2007 Cap-88v3 dataset, population and wind files to the locations set below. The files can also be upgraded to version 4 formats (recommend upgrading pop/wind files requires the version 3 database. F1 Help for more informatic Version 4 Migration/Destination Folders Dataset C:\Users\rwood\Documents\CAP88\Datasets Population C:\Users\rwood\Documents\CAP88\Population Files Wind C:\Users\rwood\Documents\CAP88\Wind Files	Run Stop Word Wrap on. This session is being saved to C:\Users\rwood\Documents\CAP88 X Message Logs\Migrate Files 20130613-1450.txt. X The log will be saved whenever Run is clicked.	Migration results Logged in file and shown in window
Find v3 Set database (data.mdb) and source folders from version 3		the second
v3 Data.mdb Copy v4 default pop/wnd files to destinations (no overwrite). Done after other operations. Normally only done on First Run.		and the second
v3 Input Datasets		
Location	x	
Include sub-folders Upgrade files to v4 Overwrite destination fil	es	
Include pop/wnd files Upgrade pop/wnd files to v4		
Organize (recommended) Migrate reports		
v3 Reports	X	Hard Start
v3 Population Files		A HULL
Include sub-folders Upgrade files to v4 Overwrite destination fi	les	
v3 Wind Files		
Location	X	
Include sub-folders Upgrade files to v4 Overwrite destination fi	les	





DATASET ERRORS

Typically a violation of validation rule or invalid file identified

CAP88-P	C - [Dataset Ed	lit - Modtest.da	t*]				×
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Dataset	Facility Po	opulation Mete	eorological S	ources Agricu	ltural Nuclide	s Reports	
Run Type	e Individual		 Population 	Age Adult	▼	Build up time 100 💌 years	
						Create dose and risk summaries	
	Inv	alid val	lie			Create dose and risk factors	
			uc			Create concentration table	and the second
Midpoints	: 10					☑ Create Chi/Q table	Cannot
1-5	800.00	700	4000.00	5600.00	7250.00		save
6-10	12100.00	24150.00	40250.00	56350.00	72200.00		datacat
11-15	0.00	0.00	0.00	0.00	0.00		ualasei
16-20 Maxim	U.UU	idual	0.00	0.00	0.00		with
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ERRORS Midpoints	must be ascend	ing. Midpoint 2 is	less tha CHAN Popul Midpo	IGES ype was 'Populat ationFileName wa int 2 was '2400',	ion', is now 'Indiv is 'c:\users\rwoo is now '700'	idual' id\documents\cap88\population files\ports.p	
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EXECUTION ERRORS

Open in a message box when the faulting condition is encountered by the code

1	Cap88Pc	
	Error loading dataset. The process cannot access the file 'C:\Users\rwood\Documents\Cap88\Datasets\Modtest\Modtest.SYN' because it is being used by another process.	
	ОК	

Usually somewhat descriptive

This one was caused by the fact that the report file Modtest.SYN was still open in MS Word when the dataset was opened





EXECUTION ERRORS

Sometimes not so descriptive!

nformation into an email	or file, and send to CAP88 support.	
Fortran Path: C:\Users\ru Getting dataset, copying Deleting fortran Output d	wood\Documents\CAP88\Fortran\ wnd/pop files, writing out the dataset. Folder files.	
ne system cannot find th	e file specified	
		-

This was generated by a failure to find the FORTRAN executable (note the path) - solved by using the Refresh Fortran button under tools>options>advanced

All errors are appended to the end of the CAP88V4Log.txt file mentioned earlier





DEALING WITH ERRORS

Migration Errors:

- Examine the migration log to determine the error source
- Many of these errors are caused by not over-writing files (usually benign)
- Examine the data folder structure to see if everything is there
 - Datasets
 - Pop/Wnd, especially any custom ones (manually insert if needed)
 - Fortran executable and batch file is in Fortran folder (refresh if not)
- Often these can be fixed by manually re-running the migration utility

Dataset Errors:

- If persistent then perhaps your desired value is outside the allowed range
 - Contact EPA to check allowed value

Execution Errors:

- You may be able to solve these by examining the message
- Often require submittal of dataset, pop/wnd, and log file to EPA



