

## DISCLAIMER

While we at CaaGE Software will strive to correct any known errors, and although all reasonable precautions were taken to ensure that this program and the data contained therein are free from errors, we will assume no responsibility whatsoever from the use or misuse of this software product. CaaGE Software will also not replace or repair any product, merchandise or piece of equipment presumably damaged by the use or misuse of this software, nor will we entertain any report, idea, notion, fabrication, or contrivance on these types of matters. This is a software product, and we know that, as such, it can cause no permanent damage to any piece of computer hardware. This software product is intended as a SHAREWARE product and if the user doesn't like it, or believes it to cause damage to equipment or personnel, or is simply evil or destructive in nature, then the user should not use it. If the user likes it, then the user is obligated to pay for the software.

January 1994

Lubbock, TX, USA

Dear User,

To install **DX-pert for Windows** onto your machine, simply copy all program files (for file names see below) into a suitable directory (e.g., DXPERT) and drag and drop the EXE program somewhere into PROGRAM MANAGER or other folder. User's are encouraged to distribute and use this initial version freely. It is hoped that those who like the software will register it. A description of each file of **DX-pert for Windows** now follows; be sure that everything is there.

DXPERT.WRI	This text file.
DX-PERT.EXE	<b>DX-pert for Windows</b> executable.
ENGINEER.DAT	Engineering data file.
UNITCON.DAT	Unit Conversion data file.
CONSTANT.DAT	Physical Constants data file.
GFARUN10.DLL	Run-time library.
XPERT.INI	Initialization file.

**DX-pert for Windows** was designed to be a psuedo "expert" system for engineers (primarily, me). It was designed to be small and quick. As stated, the primary user was myself, since I work from the computer and always seem to be looking up not only conversions but other sundry engineering facts (physical constants, drill and tap sizes, wire gauges, etc.) when doing design work. However, after several colleagues saw the program, I felt that it could also be helpful to other engineers, scientists, and students as well and decided to release a version as SHAREWARE. It should be pointed out that I could find nothing available similar to **DX-pert for Windows**, either shareware or otherwise.

This version of **DX-pert for Windows** is fully functional. All databases are ASCII text files and will allow the user to customize his/her own databases (meaning, if there is a unit conversion or other piece of data that I didn't include, then the user can easily add this). In the future, I am planning to provide no-cost updates and low-cost upgrades and some speed-enhancing functions as the databases get larger. There is a bug in the compiler of GFA-Basic (the software used to write **DX-Pert for Windows**) and this version requires the user to copy GFARUN10.DLL to the Windows directory. Future versions will not require the runtime library and will have an option to use either a 16 or 32-bit version of **DX-pert for Windows** (both will be provided). The terms for registered users is that they can place their registered versions on as many machines as they like, but only one copy can be used at a time.

## Help

There is no HELP system on any version of the **DX-pert for Windows** program since the program has many built-in Alert and Help windows when the user makes an error or needs assistance. The registered version is shipped with a manual describing the use and operation of the program (see the Operation section below).

## Operation

The only documentation on operating the demo version of the **DX-pert for Windows** program is this file. Registered users will receive a manual describing the program and its operation and are urged to consult that manual should problems arise. **DX-pert for Windows** has many built in Alert and Help windows when the user makes an error or needs assistance. **DX-pert for Windows** is easiest to use with a pointing device but, since some (notebook) users will not have this device, the user can also move around the menus with the TAB key and the HOT KEYS (keys operated by using the ALT + KEY combination). The operation of **DX-pert for Windows** is as follows:

### **1.0 Database Selection**

There are three buttons on the (bottom located) button bar labeled "Unit", "Engineer", and "Constant". They provide access into the databases described below.

#### **1.01 Unit Conversion Database**

This database contains the unit conversion data. Select a unit to start with from the top-left window, insert a quantity in the middle-left window, and press the "Convert" button.

#### **1.02 Engineering Data Database**

This database contains the engineering data. Select a data type from the top-left window and then press the "Show" button.

### **1.03 Physical Constants Database**

This database contains the physical constants data. Select a data type from the top-left window and then press the "Show" button.

### **2.0 Copy**

To copy data to the Windows clipboard (for use in other Windows programs), select the appropriate items and then press the "copy" button. If a sufficient amount of items has not been selected, you will be notified via an "Alert" window. The "copy" command can also be used multiple times without loss of data in the clipboard.

### **3.0 Exit**

To exit the program, press the "Exit" button.

### **4.0 About**

Gives a little info about CaaGE software.

## **Removal of Program Files**

Should you find **DX-pert for Windows** of no benefit whatsoever and wish to remove the program files, simply delete the DXPERT directory and everything in it. You should also delete GFARUN10.DLL from the Windows directory.

## **Technical Support and Registration**

Should you discover a problem within **DX-pert for Windows**, please advise me by using the Product Performance Report (a blank of this can be found below) or by leaving a fax message at the number below. All details in this standard form should be completed and faxed or mailed to CaaGE Software. Since I don't anticipate a large need for Tech-Support and since I am not available at all hours, this will also be the standard method of TECHNICAL SUPPORT. Registration is \$25 (U.S.). Texas residents will need to add 7.75% sales tax. Registering your copy rewards my efforts and entitles the user to no-cost future updates (upgrades will be low-cost). I will answer your fax as quickly as possible (usually within two working days) so please leave a return fax, voice number, or your mailing address..

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1715 27th. Street  
Lubbock, Texas 79411  
FAX: (806) 763-4402  
E-MAIL: grege@coe2.coe.ttu.edu

## Product Performance Report

Your Ref. No : \_\_\_\_\_ Date: \_\_\_\_ \_

Name : \_\_\_\_\_

Company : \_\_\_\_\_

Address : \_\_\_\_\_

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Zip Code : \_\_\_\_\_

Country : \_\_\_\_\_

Tel No : \_\_\_\_\_

Fax No : \_\_\_\_\_

Version: \_\_\_\_\_ Serial No : \_\_\_\_\_

Hardware : \_\_\_\_\_

Problem Description:

### **Future Releases and Upgrades**

If this product is popular, I plan to add many other engineering items of interest. The major item in the future includes material properties (electrical, mechanical, thermal, chemical, etc.) and other engineering data. I also would like to enhance the unit conversion portion of the program to accommodate the conversion functions of the popular hand-held computers (e.g., Hewlett-Packard) and enlarge/enhance the user interface to present the data in a manner that people are more acquainted with (i.e., superscripts, subscripts, etc.). Also, should the databases grow large and threaten the speed of program execution, I could implement several speed enhancement functions to circumvent that problem. I could also see the possibility of adding a formulary section in later releases for some of the engineering disciplines. And, as stated above, future updates will allow a stand-alone program which doesn't require the GFARUN10.DLL.

As I stated above, I am planning no-cost updates (to correct known bugs) and low-cost upgrades (I won't work for free). I feel that this is reasonable to all parties concerned.

## **References**

Sources of information for **DX-pert for Windows**:

1. CRC Handbook of Chemistry and Physics.
2. Machinery Handbook.
3. Womack Machine Supply Catalogue.
4. Parker O-Ring Catalogue.
5. Standard Handbook for Electrical Engineers.
6. Handbook of Common Polymers.
7. Lange's Handbook of Chemistry.

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