Pick Systems GraPICK

Installation Manual and User's Guide



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PREFACE

Document Conventions

This manual uses different typefaces to indicate different kinds of information. Please st determine the different typefaces and type styles we use and what they mean.

Keyboard Conventions

<Ctrl>

Words in darts (<>) are keys found on the keyboard.

For example, hello<Enter> means to type the letters hello, f

pressing the "Enter" key.

Any Key

Any key on the keyboard, except the <Caps Lock>, <Shift>, or <Alı

recommend using the <space bar>.

Enter:

Input the specified commands or text as shown in the instruction, an the carriage return key, a key usually labeled as <Enter>, <Return Line> on your keyboard. We usually use the term "enter" when we a

to a whole line of information to be typed in to the computer.

Type:

Input the specified commands or text as shown in the instruction,. Do not press the carriage return key unless instructed. We usually i "type" when we are referring to a word or two of information that is

into the computer.

Press:

Press the single specified character (or combination of characters) a

We usually use the term "press" when we are referring to a singl

such as: Press the <F1> key.

tyle

: this manual, we will be using this typeface for the body of our text.
ring to a dialog between the user and the computer, we will use this typeface.

are describing a dialog or interaction between the user and the machine, we will use the type styles to denote different actions:

- Words in a normal style indicate typical prompt or output by the machine.
- Words or characters in **boldface** indicate data entry by the user.

Words in **bold upright** are to be entered (typed) as shown.

These boldface words are commands, filenames, options and other keywords recognized by the system.

For example, logto dm would mean that you type it in exactly as it is shown.

Words in italics are parameters to be replaced by the actual term. It might be an actual name, word, or number.

For example, baud. rate might be replaced by 9600.

Information or commands displayed within braces < { } > is optional. The braces themselves are not entered.

When the letters n or m are shown, they represent numbers.

Numbers are usually input as a series of digits without commas.

Numbers may also be used to define a range, as in this designation. The starting and ending numbers are typed with a hyphen in between.

For example, $n\{-m\}$ might be replaced by 10 or it might be replaced by 1-31.

The vertical bar or pipe sign < | > separates available choices. The vertical bar itself is not entered.

For example, yes | no would be replaced with either yes or no (but not both).

A required entry where the possible choices are displayed in brackets < [] >.

Only one of the list of available entries is to be used.

For example, [300 | 600 | 1200 | 2400 | 4800 | 9600] would be replaced with only one of those values.

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GraPICK Installation Guide

stribution Diskettes

```
onsists of two packages:
st package is the Advanced Pick (AP) extension part (the "server").
stributed on one (or more) 3-1/2" high-density diskette(s).
```

cond package is the MS-DOS Windows terminal part (the "client"). stributed on one 3-1/2" high-density diskette.

Server diskettes are specific to the platform of Advanced Pick you are running. Make sure ve the proper diskettes for your platform. The available GraPICK platforms are:

```
ICK Server for Advanced Pick DOS
ICK Server for Advanced Pick Native
ICK Server for Advanced Pick 386 (SCO, Protected, AT&T, etc.)
ICK Server for Advanced Pick AIX
ICK Server for Advanced Pick DG AViiON
ICK Server for Advanced Pick Motorola
```

ım Equipment Required

sually requires the use of (at least) two computer systems:

system (the host, or server). GraPICK requires Advanced Pick 5.2.5 or greater, or any ation program that has been made "GraPICK-aware."

CK Server requires up to 7.5 Mb of disk space to install.

-DOS system (the terminal, or client) that is set up as a terminal emulator and is connected AP system. GraPICK requires MS-DOS 3.3 or greater, running Microsoft Windows 3.1 or

CK Client will require up to 1 Mb of disk space to install.

installing GraPICK into AP/DOS, then the server and the client may be one and the same

P/DOS system will be the server.

CK Server requires about 7.5 Mb of disk space to install.

me machine running Windows will be the client.

CK Client will require about 1 Mb of disk space to install.

Limitations

This release of GraPICK is a preliminary release and is known to have the following limita

- Support of several different types of Windows objects have yet to be implemented.
- The GraPICK client currently only supports RS232, direct-connect to AP/DOS, and communications protocols.
- Windows-style edit mode does not fully support the function keys.
- "AP Edit" mode (from the File menu's Windows Properties feature) is not fully impler

tion Procedure

wo parts to the installation. The first installs GraPICK into the Windows environment (the the second part of the install allows the AP environment (the server) to be made GraPICK-

t Registration

start, please take a few moments to fill out and send in the registration card, found with the res. Registration allows you access to Pick Systems Customer Service and allows us to keep ed of product updates and enhancements.

ng the GraPICK Client into Windows

our machine running Windows, insert the disk labeled: :aPICK Client for Windows Volume #1/1 : floppy drive..

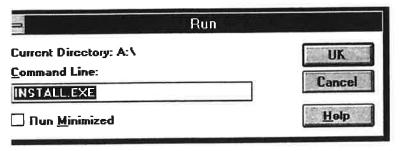
e installation routine by doing the following:

to the Windows File Manager,

ick on the appropriate diskette drive button to view the contents of the GraPICK Client skette,

ghlight install.exe,

ıll down the File Manager's File menu and click on Run.





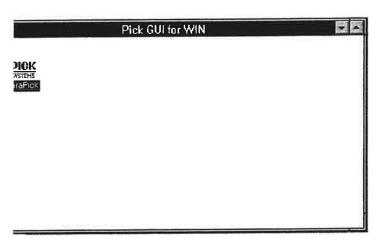
- Enter the subdirectory name where you want GraPICK to install and click on the when you are ready.
- GraPICK will install itself, and when it is done, it will display:



Click on the \mathbf{OK} button when you are ready.

point, the GraPICK client is installed on your system.

achine will show a group window with the GraPICK icon in it. Double-clicking on this icon at the GraPICK client.



u are installing GraPICK on AP/DOS, then there are a couple of additional steps necessary.

be necessary to reinstall AP/DOS. (The installation process will only tell you it is necessary stall if it encounters a problem, so it would be wise to back your files up first.)

oes become necessary to reinstall AP/DOS, then the following step *must* be performed the AP/DOS installation immediately before loading the abs diskettes. Otherwise, the ing step may be performed at any time.

e "GraPICK Client for Windows" diskette in the drive, and copy the programs ce", "pickmon.exe", and "pick.pif" from the "\PICK" subdirectory on the diskette to your !K" subdirectory (or whatever you have named it) on your disk drive:

```
a:\pick\*.* c:\pick /y
3 file(s) copied
```

our AUTOEXEC. BAT file to execute this program.

```
ple AUTOEXEC.BAT file would look like this:
acho off
rompt $p$g
ath c:\dos;c:\windows;c:\msoffice
at temp=c:\dos
```

```
C:\dos\smartdrv.exe /x
lh /L:1,6400 c:\dos\doskey

chkdsk/f < c:\dos\xdos\yes.dat > nul:
if exist file*.chk erase file*.chk

c:\pick\ttsr.exe
win
```

(Note: You may not use the DOS "loadhigh" command to load the "ttsr.exe" π

When the program is invoked, it should report: hooking interrupt 0060

You may, if you wish, use the command:
c:\pick\ttsr.exe > nul:
to avoid viewing this output.

ating indexes)

re completed.

logto gui.demo

ng the GraPICK Server to make Advanced Pick become K-aware

```
he system already running Advanced Pick, and place the disk labeled
aPICK Server for Advanced Pick platform Volume #1/n
; floppy drive.
aPICK floppies must match the target platform.
Jnless you are installing GraPICK for AP/DOS, this will not be the same physical machine
lient machine running Windows, above.
the "dm" account.
logto dm
appropriate tape device.
                                                (if your floppy device is drive
set-floppy (ah)
 Tape device is assigned to 3 1/2" high density (1.44M) floppy using drive
t-rew
size: 500
mt-restore gui.demo
it name on tape: gui.demo
ii.demo > filename
stem will ask for the other diskettes, as necessary)
te from incremental save tape (y/n)? n
:e from transaction log (y/n)? n
```

6a. If you are installing this on an AP/Pro platform, then perform this step, otherwise go to

```
• Enter: up dict nsm.gui 'mode'
```

- 01 6386
- 02 virtual
- 03 translation
- 04 sensitive
- 05 1

(the contents may vary somewhat between

- 06 5.2.6.A3
- Go to line 01 and change 6386 to pro

Type: pro<Ctrl>e

• Press: <Ctrl>xf to file the change.

7. Enter: grapick.install

It will display various new modes as it generates a new gui abs. It will take a few minu Creating abs.gui.temp ... Please Wait ...

Finally, it will say:

```
--- Completed ---
```

--- Execute the 'setup.grapick' verb to install GraPICK to another account

8. Enter: catalog dm,bp, term

[244] 'term' cataloged

9. Enter: sgs

```
day mon year platform
--- GraPICK is set up ---
```

At this point, GraPICK is installed on your server system.

To use GraPICK, just:

logto gui.demo

sgs

and run your Pick/BASIC programs, or use the new features of the Update processor.

you type "sgs" from a non-gui terminal, the cursor may "disappear." This is normal. It terminal type back to "mm-mon" will make the cursor reappear.

le to a timing diagnostic in AP/DOS 5.2.7.14, you may (or may not) see the following hen you boot AP/DOS on faster 486 and pentium machines:

30016 _

<Enter> to continue, and the machine will continue to boot up to the logon prompt without trouble.

nessage occurs due to an instruction diagnostic command (in AP/DOS) which sometimes error code to be erroneously reported back to Pick. It is harmless, and the problem will be a future release.

Enabling GraPICK for the User

To set up GraPICK in other user accounts, do the following:

1. Enter: logto gui.demo

2. Enter: setup.grapick
 target account: account.name
 ----- Installation completed ------

Repeat the above process for each additional account you wish to use with $\operatorname{GraPICK}$..

etup.grapick

ck to your account, and try again.

K Installation Troubleshooting

problems, try re-installing the product first.

```
lems you may encounter are:
i.demo' exists on file
e trying to install GraPICK over an existing version.
the old one by doing:
lete-account gui.demo
s,, 'gui.demo' size = 44
рe
pe d
se/dict 120396
dulo
               37
              sys2
stification
              L
dth
                12
allocation
SPLAY FILES BEFORE DELETING (<Y>,N)? n
YOU STILL WANT TO DELETE THE ACCOUNT (<N>,Y)? Y
ls,, 'gui.demo' size 44 deleted.
installing it again.
missing!
llation stopped ---
re trying to invoke GraPICK, but you haven't run the "setup.grapick" routine on your
ogto gui.demo
```

If you have any other problems installing GraPICK, please contact:

Pick Systems Customer Service 1691 Browning Ave. Irvine, CA 92714 United States Phone: [1] 714/261-1875 Fax:[1] 714/261-5308

Pick Systems Support - Europe The Manor Haseley Business Centre Warwick CV CV35 7LS United Kingdom Phone: [44] 1203-537027 Fax:[44] 1203-537045

Pick Systems Africa (Pty) Ltd. P.O. Box 15277 Vlaeberg 8018 South Africa Phone: [27] 21-240656 Fax:[27] 21-247761

Pick Systems Ltd.
12th Floor, Profsojuznaja Str. 84/32
M. V. Kaldish Applied Mathematics Institute
Russian Academy of Sciences
Moscow, GSP-7 Russia
Russian Federation

Phone: [7] 095-33-36456 Fax:[7] 095-33-38000

GraPICK User's Guide

action

ms offers GraPICK as an add-on to existing Pick software, which enables Advanced Pick s to use the Windows environment.

fined, GraPICK is a module within Advanced Pick that can be attached to (or driven by) ams, processes, or end-user applications to tap the full graphical, messaging, database and ation capabilities of the local client environment. In this version, the client environment is Windows. Future GraPICK implementations may support other client environments such as s, Apple Macintosh, Motif, etc.

uited definition of GraPICK would be a graphical user interface (GUI) program running in a Windows environment that acts primarily as an enhanced terminal emulator. It allows a Pick to create and manage Windows objects and facilitates interfacing with other Windows programs.

is thus made up of two parts - an extension to Advanced Pick that makes the system ware, and a Windows connection package that permits a PC running Windows to ate more effectively with Pick.

e GraPICK in either of two ways:

sions to the UPdate processor, Attribute correlatives and the new "form" connective lets you by Windows environment without having to write a single line of Pick/BASIC code.

sions to the Pick/BASIC subroutine library allows application programs to be customized a in the Windows environment.

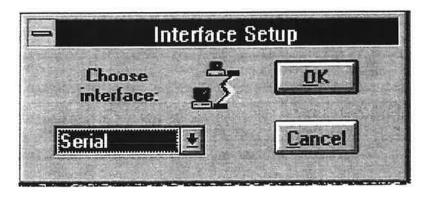
ures do not come without a price. You, as an applications developer, must learn how to 'indows "forms" and "objects." One goal of GraPICK is to reduce the management of the forms and their objects, down to simple database transactions, where your desktop of exist simply as a file in the Pick database, accessible and maintainable like any other Pick

e that you, as a user or a developer, are familiar with Microsoft Windows, and that you the concept of using a mouse, clicking, double-clicking, dragging, highlighting, and so on. ssume that you, as a programmer, are familiar with Microsoft Windows terms such as ons, buttons and so on. If this is not the case, points in this guide may seem confusing. We it you spend some time learning about the Windows environment before trying to make use PICK.

Starting GraPICK on the Client

To start running GraPICK, open the PICK GUI for WIN group and then double-c GraPICK icon.

- The first time you invoke GraPICK, you must define the type of connection to Advanc you will be using.
 - Indicate which interface you wish to use.
 Pull down the GraPICK Settings menu, and choose Interface.

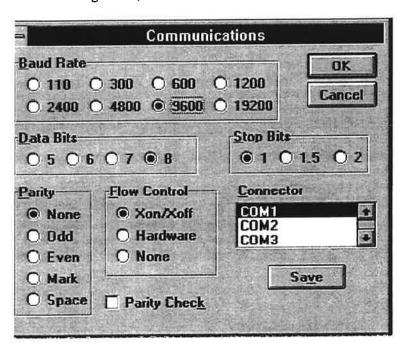


- Highlight the appropriate interface:
 - Use a standard RS232 serial connection to the host (server) machine
 - Use the FTP (File Transfer Protocol) TCP/IP interface to the host (server) ma Note: If FTP has not been installed on your Windows workstation, then it wil as an option.

-or-

- Use the AP/DOS interface to connect this machine (as a client) to this mac server).
- Click on the OK button when you are ready.

e a serial connection, you will need to verify the serial port setup characteristics: lect the Settings menu, and click on Communications.



le defaults are 9600 baud, 8 data bits, 1 stop bits, no parity, Xon/Xoff enabled and COM1.

odify the settings appropriate for your system, click on the Save button to save the new ttings and then click on the OK button.

- 1. Make the connection to your host Pick machine and log on.
- 2. Activate the host's GraPICK abs and then inform your Pick process that you are con GraPICK Windows terminal by specifying its term type as "gui":
 - Enter: sgs

Note: the macro sgs contains the the following commands:

exec gui.demo,abs.gui.temp

term gui

You may wish to use them instead of the macro, but if you do, these two lines a together.

Note 1: You may wish to add the above command(s) to your logon macro in your user "dm,users," file).

Note 2: Many user logon macros (in the "dm,users," file) already have an "e command, which may interfere with the "exec gui.demo, abs.gui.temp," This will prevent GraPICK from functioning properly for the current process. Be sure "exec" command that gets executed is the "exec gui.demo, abs.gu command.

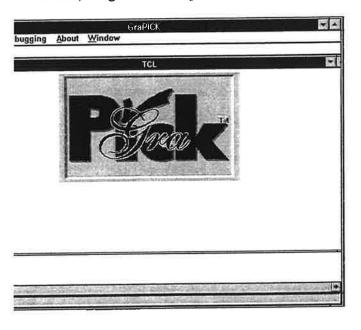
Starting GraPICK on the Server

Once you have installed GraPICK on your server, there is nothing more for you to do. To capability is there waiting for the user to take advantage of it.

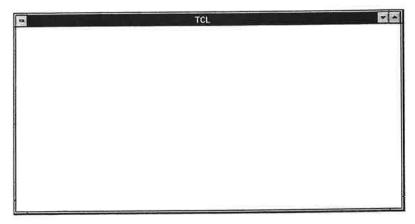
Note: if you create additional accounts later, you will have to run the "setup.grapic to allow it to use GraPICK.

aPICK Client Environment - A User's Point of View

K client terminal (or GUI terminal) lets you access an Advanced Pick system from a nvironment, along with all the options and features available to a Windows user.



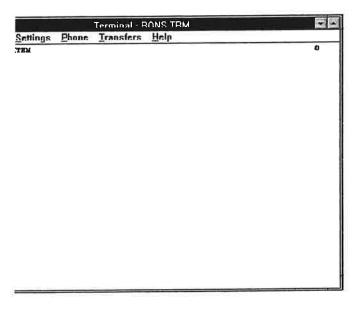
Executing TCL Commands



GraPICK offers a windowed terminal screen for communicating with the Pick host (serv TCL commands as you usually do. Pull down the **Settings** menu and choose **Font** to display font.

ig or Editing Data

y UPdate processor entry screen through the Microsoft Windows Terminal emulator might



In GraPICK, using the (w) option, the screen would look like this:

2	GraPICK	
Properties Window File EXIT RENAME DELI	Commands TE NEXT PREV ZOOM	>> HELP
a HENAME DEL	entity NEW ITEM	Dic.
SULDANG		
name		
address		
zie		
phone		
cwot.info		
codes		
affiliates		
aailstop		
61610		
AND DESCRIPTION OF THE PERSON NAMED AND ADDRESS OF THE PERSON		

Note that each line of data entry is clearly defined and type styles of the attribute na different features available for that attribute.

ws Features

rd Windows Data Box

ses a standard Windows data box to display all the attributes to be edited in an item. If all es will not fit within a single screen, then use the scroll buttons on the side or bottom of the

ute name is shown with a "slot" (or data box) alongside it for the data. The width of the data rmined by the attribute-defining item. The height of the data box is always 1, unless the fining item has a "wn" as an input-processing code, or unless the form was previously see Local Edit Mode and AP Edit Mode).



1 of the value exceeds the data box's width, or if there are multiple values, then it will stack multiple lines (as if it had a justification type of "tx"). and automatically display a scroll bar t side of the data box. Click on the up/down button to scroll the data in the slot.

diting Using the Mouse

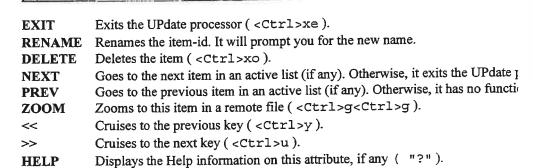
se the standard Windows text-editing features while entering or editing information. ouse or the arrow keys to position the cursor, highlight letters or words for deletion or 1. Use <Ctrl><Delete> to delete words, etc.

r to your Windows documentation for a more complete explanation.

Toolbar Buttons

Toolbar buttons let you perform predefined commands, like a macro. Mouse-click on the l performs the operation. See below for the predefined GraPICK Toolbar buttons.

EXIT RENAME DELETE NEXT PREV ZOOM (>> HELP



Windows-style Text Editing

All the typical Advanced Pick data entry/editing features are useable in the GraPICK entiaddition, the Windows editing features using the mouse and arrow-keys, and Windows-stare also available. You can also "cut and paste" using Windows' clipboard <Alt><PrintScreen> within data entry forms.

Note: Only partial function key support is included in this release, with full function key key support to be included in a later release. Future versions will give you even more con editing keys.

CK Features

²date Processor (w) Option

e processor now works in both character-mode and windows-mode. Windows-mode may be by merely including the "(w)" option to the TCL-command line (or the input-macro in the lefining item) for the sentence, e.g.,

ntity name phone zip comments (w)

ows-mode is designated, it will propagate to all subsequent zooming and cruising windows, ocess exits the UPdate processor and returns to TCL.

inted Attributes

attributes allow you to "cruise" through the current file using existing indexes, or "cruise" ackwards on an index of a remote file and/or "zoom" into this same remote item. These ibutes now have their attribute names highlighted to inform you of the added functionality or this attribute. Pick uses the following highlighting conventions:

oute characteristic

meaning

"local" cruising and zooming enabled "remote" cruising and zooming enabled

ined lined italics

"local" and "remote" cruising and zooming enabled

attribute is display-only

n you see an attribute name highlighted in such a way, it will be apparent that this attribute lity to "cruise" or "zoom" or both.

ng

ruise on an item by selecting that attribute, and:
e typical UPdate processor <Ctrl>u | <Ctrl>y commands, or
e-click on the left mouse button, or
on the ">>" button.

vailable indexed attribute value will display in the data field.

Idvanced Pick Reference Guide (formerly Epick) for more information on UPdate processor

Zooming

You can zoom to an item by first selecting that attribute, and then:

- use the typical UPdate processor <Ctrl>g<Ctrl>g command, or
- double-click on the right mouse button, or
- click on the ZOOM button.

When you zoom to a remote item, a new window will open for that zoomed item. Edit (item as usual.

Closing a Zoomed-to Window

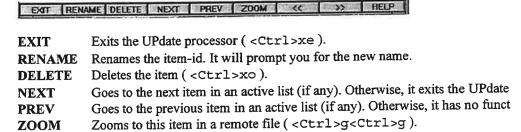
You can exit the zoomed-to item by:

- using the typical UPdate processor <Ctrl>xf | <Ctrl>xe | <Ctrl>xo | etc. cor
- by clicking on the exit button, or
- use the pull-down File menu and exit, or
- double-clicking on the top-left box in the window frame.

(See *The Advanced Pick Reference Guide* (formerly *Epick*) for more information on UPda commands.)

GraPICK Toolbar Buttons

While in the UPdate processor, GraPICK also has the following Toolbar buttons avails use:



compose the composition of the composition of

HELP Displays the Help information on this attribute, if any ("?").

'aPICK Client Environment - A Programmer's Point of

lancements have been made to the Advanced Pick Operating System to make it easier to aPICK applications.

:K Filesystem Changes

orm Item

need to modify your existing dictionaries to use GraPICK screens (forms). It will generate indows form for you automatically.

orm in GraPICK is the existing screen layout generated directly by an application, where nakes various assumptions. GraPICK builds a form from explicit object definitions sent as nences to it from the application (whether the UPdate processor, Pick/BASIC, etc.).

tion can specify a form name for reference in other routines.

s form on either the DOS (client) or Pick (server) side, go to the GraPICK Main Menu, pull 'roperties menu, and choose Save Properties. The UPdate processor will generate a unique its form based on the list of attribute names and save it. If the UPdate processor is invoked the same attribute list, it will recall the same form automatically.

f you wish, modify the form and save it again, or save it as a custom form. If you wish to rm item a name yourself, then use the form connective in the UP command line. (See New onnective.)

v{n}" Processing Code

"processing code has been added to allow you to specify the size of an attribute's data box reen (or "form"). Normally, the data box size has a default value of one. But to have a data o display three values for, say, the "phone" attribute, add a "w3" to the Input-conversion of re-defining item "phone" in the dictionary of the file. You can also override this using the "command in GraPICK.

New opf Item

.Opf files contain compressed definitions of all objects in the form starting from the Win Forms are placed on the dictionary of corresponding Pick file on the server. If the form is Pick/BASIC application, it is saved in the dictionary of the "pd.forms" file. The structures on DOS and .opf items on Pick are quite similar.

Forms saved on Pick have the following structure:

Attribute #	Term	Description
1	£	specifies a form-defining item.
2	date/time	time the form was saved.
3	dosfile	the name of corresponding DOS .opf file.
4	.opf	.opf file imported from DOS.

:K UPdate Processor Changes

P (w) Option

processor now works in both character-mode and windows-mode. Windows-mode may be by merely including the "(w)" option to the TCL command line (or the input-macro in the efining item) for the Update sentence, e.g.,

stity name phone zip comments (w)

once you designate windows-mode, it propagates to all subsequent zooming and cruising ntil the process exits the UPdate processor and returns to TCL.

P Form Connective

n" connective may be used to override the use of a default form, or to create a new form the (existing) default form.

```
would be:
ilename form formname {attribute ...} {(options)}

name is the name of the (Pick) file to update.

name is the name (item.id) of the form which can be found in the dictionary of the specified file.

ibute is the attribute name (or attribute list) to use.

ons are the options available to the UPdate processor.
```

 $dvanced\ Pick\ Reference\ Guide\ (formerly\ Epick)\ for\ more\ information\ on\ UPdate\ processor\).$

GraPICK Pick/BASIC Changes

New Data Statement Extension

When working with a GraPICK client, an enhanced data statement support is implem means that by using the Pick/BASIC "data" statement or "access (21)" function for stacked data, you can simulate almost any keystroke combination for Windows (including other applications, passing them data, etc.).

Each key is represented by one or more characters. To specify a single keyboard character itself, enclosed in double-quotes < " >. For example, to represent the letter statement for update looks like:

```
data '"a"'
```

Where a data statement character string is enclosed in single-quotes < '>.

If you want to represent more then one character, include them all within a double-quoted s data '"abc"!

The plus <+>, caret $<^>>$, percent sign <%> and parentheses <()> characters l meanings (see below). To specify one or more of these special characters, enter the charac $<\{\}>$. For example, to specify the plus sign, use:

{+}.

To send the opening brace < { > or closing brace < } >, use:

{{} or {}}.

To specify other keyboard keystroke characters such as <Enter> or <Tab>, use the following

```
Key
               {backspace} or {bs} or {bksp}
Backspace
Break
               {break}
               {capslock}
Caps Lock
               {delete} or {del}
Del
Down Arrow
               {down}
               {end}
End
               {enter}
Enter
               In UP-specific data, <Ctrl>M also will be interpreted as <Enter>
               (i.e., data '"abc"m' will be interpreted as abc{enter}).
               {escape} or {esc}
Esc
Home
               {home}
Insert
               {insert}
```

```
{left}
rrow
         {numlock}
ock
         {pgdn}
own
         {pgup}
ſρ
creen
         {prtsc}
         {right}
Arrow
         {scrollock}
Lock
         {tab}
         {up}
         {f1} through {f12}
ough F12
```

keys combined with any combination of <Shift>, <Ctrl> and <Alt> key(s), precede the e with one or more of these codes:

Code

+

^

왕

le, if you wanted the data to be <Shift>bob, you could use: Bob or +bob.

s characters < () > may be used to group character codes together. To indicate that <Shift>, 1/or <Alt> should be held down while several keys are pressed, enclose the key in s. For example, to hold down the <Shift> key while pressing E and C, use + (EC). To hold <Shift> while pressing E, followed by an unshifted C, use +EC. The ever-popular > sequence would be represented as (^%{del}).

- a repeating character, use the syntax:
- $number\}$
- e is a space between key and number. For example, {left 14} means press the "left fourteen times; {x 5} means press the character x five times.

Importing / Exporting Data Between the Host and the C GraPICK

GraPICK provides the user capability to exchange data between host and client.

```
The "gui.import" routine transfers DOS files into Pick items. Syntax:
```

```
gui.import pickfile {item.ids} {(options)}
from: {dosfile} {dosfile} ...

pickfile The Pick filename to write to.

item.ids The Pick item(s) to write.
```

If no item.id is specified, then it will use all items, or if there is an will refer to the list.

GIAFIUN US

options Available options:

38

b binary items.

f items are Forms (DOS ".opf" files).

dosfile The DOS filename to read.

The "gui.export" routine transfers Pick items into DOS files. Syntax:

```
gui.export pickfile {item.ids} {(options)}
to: {dosfile} {dosfile} ...
```

pickfile The Pick filename to read.

item.ids The Pick item(s) to read.

If no item.id is specified, then it will use all items, or if there is an

will refer to the list.

options Available options:

ь binary items.

f items are Forms (DOS ".opf" files).

dosfile The DOS filename to write to.

Note: A "modified Kermit" protocol is currently implemented for the data transfers; howersions will fully support Kermit, Xmodem, Ymodem, Zmodem, etc. protocols.

ck/BASIC "gui.lib" Subroutine Library

ing Include files and subroutines are in the "gui.lib" file for use with Pick/BASIC programs. neir source listings are provided, we recommend that you do not modify the source code in sure compatibility with later releases.

```
Color Table
apr kp
3(28)
              ;* white
1 = 16777215
               ;* black
) = 0
) = 12632256 ;* gray (light)
             ;* gray (dark)
;* red
1 = 4210752
) = 255
               ;* red (dark)
) = 128
              ;* yellow
) = 65535
               ;* yellow (dark)
;* green
) = 32896
) = 65280
               ;* green (dark)
) = 32768
              ;* sea-green
;* sea-green (dark)
) = 16776960
) = 8421376
) = 16711680
              ;* blue
               ;* blue (dark)
) = 8388608
               ;* lilac
;* lilac (dark)
) = 16711935
) = 8388736
) = 8454143
               ;* yellow (light)
               ;* khaki
) = 4227200
               ;* green (light)
) = 8453888
                ;* gray-green
) = 4210688
               ;* ice-blue (light)
) = 16777088
               ;* ice-blue
) = 16744448
) = 16744576
               ;* violet (light)
               ;* violet
) = 8404992
               ;* pink
) = 8388863
               ; * violet (dark)
) = 8388672
                ;* brown (light)
) = 4227327
) = 16512
               ;* brown
```

40

```
$properties
001 * properties definitions ( equal the dict PD file )
002 * 1 Jul 94 kp
004 equ COLOR.FILE to "pd.support,color.tbl" ;* file with palette
005 equ SET.ON to 1, SET.OFF to 0, RIGHT to 1
006
007 equ MAIN to 0, SUBMENU to 0, POPUP to 1, SYSTEM to 2 ;* menu types
008
009 *--- values returned by W.MSG.BOX() subr
010 equ YES to 'Y', NO to 'N', CANCEL to 'C'
011 equ IGNORE to 'I', RETRY to 'R', OK to char(13)
012 *
013 *-- attributes/properties of an object
014 equ OBJ.TYPE to 1
                          ; * object type (see below for valid types)
015
                          ;* horizontal coordinate (pixels)
016 equ X
                  to 4
                           ;* vertical coordinate (pixels)
                 to 5
017 equ Y
                          ;* width of an object
                                                    (pixels)
018 equ WIDTH
                 to 6
                           ;* height of the object (pixels)
019 equ HEIGHT
                 to 7
020
                          ;* future !!!
                 to 10
021 equ BOLD
022 equ ITALIC to 11
                          ;* font italic
                                            if SET.ON
                          ;* font underlined if SET.ON
023 equ UNDERLINE to 12
                           ;* font stikeout if SET.ON
024 equ STRIKEOUT to 13
                          * size of font
025 equ FSIZE to 14
                                             (pixels)
                          ; * name of font ('script', 'modern' etc, see
026 equ FNAME to 15
027
                           ;*the 'PD.SUPPORT, FONTS' file for valid fontname
028 *-- for COLORS :
029 * RGB-code of the color from the $colors item.
        See the 'PD.SUPPORT, COLOR.TBL' file
                        ;* color of background
030 equ BACKCOLOR to 16
                           ;* color of foreground
031 equ FORECOLOR to 17
032 equ BORDERCOLOR to 18 ;* future
033
                           ;* text to be written on a control
034 equ CAPTION
                 to 19
035 equ PICTURE to 19
                           ;* path for .bmp
                          ;* title of the WINDOW object
036 equ TITLE
                 to 19
                          ;* Style 3D if SET.ON
037 equ STYLE3D
                 to 21
038 equ BYCLOSE to 30
                           ;* string to be sent by closing the Window
                          ;* string to be sent by left mouse click
039 equ BYLCLICK to 31
040
041 *-- object types (valid value for OBJ.TYPE)
042 equ WINDOW to 0, DATA to 1
043 equ BUTTON to 2, TBBUTTON to 3, GBOX to 4, BMP to 5, STATEXT to 6
044 equ RBUTTON to 7, CHBOX to 8
046 *- properties of menus
                                                      if SET.ON
                        ;* menu item is grayed
047 equ GRAY
                to 40
                        ;* menu item is 'bar broken' if SET.ON
048 equ BAR.BREAK to 41
                          ; * menu item is 'broken' if SET.ON
049 equ BREAK to 42
                 to 43 ;* menu item is right aligned if RIGHT
050 equ ALIGN
              to 44 ;* menu item is checked if SET.ON
TE to 45 ;* menu item is separated if SET.ON
051 equ CHECK
                        ;* menu item is separated
052 equ SEPARATE to 45
```

ESC!

to 32 ;* string to be sent by ESC key pressed

item

subroutine activate.menu(x, y)

Subroutine to activate a predefined standalone popup menu.

- x x-coordinate of the screen where the menu is to be placed.
- y y-coordinate of the screen where the menu is to be placed.

subroutine add.menu.item(path, item, MenuType)
Subroutine to add an item at the end of the submenu.

path #Menu.level_1 : <am> : ... : #Menu.level_n

defines the hierarchy of menus this menu is connected to.

properties of the menu item. (see the "\$properties" item above for de

MenuType POPUP if standalone popup submenu.

SYSTEM if system menu. otherwise, it is ordinary submenu.

subroutine change.object(Nwdw, Nobj, Properties)
Subroutine to change properties of the object. The object must be already created.

Nwdw window number.
Nobj object number.

Properties dynamic array, defining properties of the object (see the "\$prop

above for details).

subroutine change.wdw.title(NewTitle) Subroutine to change a title of the window.

NewTitle new title for the window.

subroutine check.menu.item(path, mode, MenuType)
Subroutine to make a line of the menu checked/unchecked.

path #Menu.level_1: <am>: ...: #Menu.level_n.

defines the hierarchy of menus this menu is connected to.

mode 0 means "set checked", else "set unchecked."

MenuType 0 - ordinary submenu.

1 - standalone popup submenu.

1 - Standarone popup submenu.

2 - system menu.

```
ne clear.data.obj( Nwdw, Nobj )
itine to clear all values of the "data" object.
          window number.
          object number.
ine clear.tb
itine to clear the tool bar of the currently active window.
ine clear.wdw( Nwdw )
itine to clear the specified window.
          window number.
ine create.menu( Menu )
itine to create a main menu.
          properties of the menu (see the the "$properties" item above for details).
ine create.object( Nwdw, Nobj, Properties )
itine to create an object with specified properties.
          window number.
          object number.
          dynamic array, defining properties of the object (see the "$properties" item
erties
          above for details).
ine create.submenu( path, Menu, isPopUp )
ıtine to create a submenu.
          #Menu.level_1: <am>: ...: #Menu.level_n.
          defines the hierarchy of menus this menu is connected to.
          properties of the menu (see the the "$properties" item above for details).
          "0" means standalone popup menu.
рUр
          If it is a standalone popup menu, it will have to be activated by "call
          activate.menu(x,y)."
```

```
subroutine create.value( Nwdw, Nobj, Nval, data )
    Subroutine to create a value of the object.
                   window number.
   Nwdw
                   object number.
    Nobj
                   value number.
   Nval
                   text data to fill the value.
    data
subroutine del.menu( MenuType )
   Subroutine to clear and delete menu(s). If it is the system menu, it restores the original
                   0 - ordinary submenu.
    MenuType
                    1 - standalone popup submenu.
                   2 - system menu.
subroutine del.menu.item( path, MenuType )
    Subroutine to delete an item from the menu.
                    #Menu.level_1: <am>: ...: #Menu.level_n.
   path
                    defines the hierarchy of menus this menu is connected to.
                    POPUP
                               if standalone popup submenu.
   MenuType
                               if system menu.
                    SYSTEM
                    otherwise, it is ordinary submenu.
subroutine del.value( Nwdw, Nobj, Nval )
    Subroutine to delete a value from the object.
    Nwdw
                   window number.
                    object number.
    Nobj
                    value number to delete.
    Nval
```

subroutine del.wdw(Nwdw)

Nwdw

Subroutine to clear and delete the specified window.

window number.

If Nwdw = "" or Nwdw = 0 then the currently active window is deleted

```
ine form.fn ( Nwdw, formname )
itine to send formname to the client. This name will be used when the form is saved ("save
ty" mode ).
          window number.
          name of the ".opf" file/item on server where the form will be saved to.
ıame
ine form.vseq( Properties, vseq, chg.flg )
evel common subroutine to reformat "properties" to GUI virtual sequence.
          dynamic array, defining properties of the object (see the "$properties" item
erties
          above for details).
          sequence to be returned.
          0 - if creating vseq to CREATE the object.
flg
          1 - if creating vseq to CHANGE properties of the object.
ine get.color( code, color )
itine to get color value through its number.
          color code to be returned.
          color value desired.
ine gray.menu.item( path, mode, MenuType )
itine to set an item of the menu grayed/ungrayed.
          #Menu.level 1: <am>: ...: #Menu.level_n.
          defines the hierarchy of menus this menu is connected to.
          0 - means "set grayed."
          else "set ungrayed."
```

ıtine to set cursor shape from "hourglass" to "arrow" and allow input through the

0 - ordinary submenu.

2 - system menu.

1 - standalone popup submenu.

Type

ine hg.OFF

ard/mouse.

GraPICK Us

```
subroutine hg.ON
```

Subroutine to set cursor shape to "hourglass" and block any input from the keyboard/n

subroutine highlight.menu.item(path, mode, MenuType)
Subroutine to set an item in the menu highlighted/normal.

path #Menu.level_1: <am>: ...: #Menu.level_n.

defines the hierarchy of menus this menu is connected to.

mode 0 - "set highlight."

else "set lowlight."

MenuType 0 - ordinary submenu.

1 - standalone popup submenu.

2 - system menu.

subroutine ins.menu.item(path, item, MenuType)
Subroutine to insert an item into the submenu.

path #Menu.level_1: <am>: ...: #Menu.level_n.

defines the hierarchy of menus this menu is connected to.

item properties of the menu item (see the "\$properties" item above for de

MenuType POPUP if standalone popup submenu.

SYSTEM if system menu. otherwise, it is ordinary submenu.

subroutine process.menu.item(path, item, MenuType, code)
Low-level subroutine to add / delete / replace / insert a menu item.

path #Menu.level_1: <am>: ...: #Menu.level_n.

defines the hierarchy of menus this menu is connected to.

item properties of the menu item (see the "\$properties" item above for de

MenuType POPUP if standalone popup submenu.

SYSTEM if system menu. otherwise, it is ordinary submenu.

subroutine rearrange.menu

Subroutine to rearrange all menus that were changed, otherwise, the changes don't tak

```
ne rearrange.objects( Nwdw )
tine to activate all predefined objects.
         window number.
ne repl.menu.item( path, item, MenuType )
tine to replace an item in the submenu.
         #Menu.level_1: <am>: ...: #Menu.level_n.
         defines the hierarchy of menus this menu is connected to.
         properties of the menu item (see the "$properties" item above for details).
                     if standalone popup submenu.
Туре
         POPUP
         SYSTEM
                     if system menu.
         otherwise, it is ordinary submenu.
ne RGB( r, g, b, color )
tine to return a color value as a mixture of values of red, green and blue.
         8-bit value for red.
         8-bit value for green.
         8-bit value for blue.
         Composite 24-bit color value returned where:
                                            = the "red" value.
         xxxxxxxx
                                            = the "green" value.
          ......xxxxxxxxx.....
                                            = the "blue" value.
          .....xxxxxxx
.ne run.wdw.prg( PrgName )
itine to run the specified window program.
         name of the program ( for example : "pr.exe" ).
шe
ine set.focus( Nwdw, Nobj, Nval )
itine to set focus pointed to the value of the object.
```

window number. object number. value number. subroutine sts.line(txt)

Subroutine to output text to the status line (at the bottom of the screen).

txt

Text to output on the status line.

.ne w.dlg.box(title, prompt, content, ret) time to get input through standard window modal dialog box.

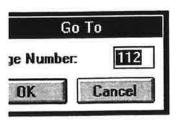
window dialog box title.

window dialog box prompt.

window dialog box input string.

string to be sent to server by click.

		_		
	+4	tle		1
	LI	LIE		•
oro	mpt			1
				1
į.	con	tent	1	1
				1
				1
				1
! 01	K !	! Canc	el!	1
				1
				!



ox that contains three Windows control elements: dit' window for an input string ("content" above) button and cel button.

nters data (if any) into the "content" area, and presses <Enter> or a button. K button sends the entered string (if any) and a char(13) to the server. ancel button sends <Esc> to the server. Any input data will be lost.

GIAFION US

JU

!

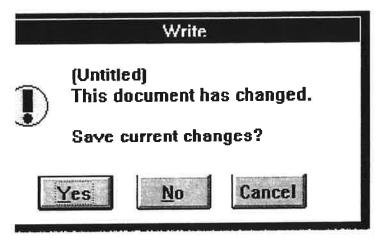
!

subroutine w.msg.box(Nicon, ButtonCode, title, prompt, ret)
Subroutine to create a standard window message box.

Nicon	icon name (numeric).						
	1 - "STOP" symbol. 2 - "?" question mark.						
			tion mark	.			
		informat	_	COST BUILDING TO STANKE			
ButtonCode	•		on is <u>und</u>				
	Code		definitio	on(s)	Return	IS	
	1	<u>OK</u>			x'0D'		
	2	<u>Yes</u>	No		Y	N	
	3	Yes	<u>No</u>		Y	N	
	4	<u>Yes</u>	No	Cancel	Y	N	C
	5	Yes	<u>No</u>	Cancel	Y	N	C
	6	Yes	No	Cancel	Y	N	С
	7	Abort	Retry	Ignore	Α	R	Ι
	8	Abort	Retry	Ignore	Α	R	I
	9	Abort	Retry	<u>Ignore</u>	Α	R	I
	10	<u>OK</u>	Cancel		x'0D'	C	
	11	OK	Cancel		x'0D'	C	
	12	Retry	Cancel		R	С	
	13	Retry	Cancel		R	C	
title	messag	e box title	e text.				
prompt	messag	e box pro	mpt text	•			
ret	returns	pressed.	_				
1-1	title			I .			
1				1			
! ICON		p	rompt	1			
! (depends	on Nic	on)		1			
¥				1			

LINE OF BUTTONS !

! (depends on ButtonCode) !



mming Using Pick/BASIC

Il Strategy

ly straightforward to generate GraPICK screens by a Pick/BASIC application using the pyided by GraPICK in the "gui.lib" file:

Creating a Form Item

Building a form layout is simply the process of object-by-object creation (in Windows). I should be described before its creation. To describe an object means to define its type (w graphic, tag, menu, etc.) and other properties (coordinates, size, colors, etc.). Once t described, it may be created by the appropriate subroutine out of gui.lib.

Note: The WINDOW object should be created *first*. The following table may help you in a proper subroutine to create the object:

1.	Object Window	Object type WINDOW	Subroutines to create object create.object()	Notes WINDOW object should first!
2.	Databox	DATA	create.object() create.value()	Creates an empty data box. Fills the box by value.
3.	Tag	STATEXT	create.object()	
4.	Buttons	BUTTON TBBUTTON RBUTTON	create.object() create.object() create.object()	
5.	Groupbox	GBOX	create.object()	
6.	Checkbox	CHBOX	create.object()	
7.	Graphic	BMP	create.object()	
8.	Menus	MAIN	create.menu() rearrange.menu()	Creates the main menu. Makes the precreated menu
9.	Submenus	SUBMENU	create.submenu() rearrange.menu()	Creates the submenu. Makes the precreated menu
10.	Submenus	POPUP	create.submenu() activate.submenu()	Creates the standalone popu Activates the precreated star popup menu

ing the Form Item

objects are created, you may modify them at any time. There are a number of "gui.lib" provide the Pick/BASIC application with this possibility. The table below will help you to ppropriate one.

property may be changed, except "Object Type."

t w	Object type WINDOW	Subroutines to modify properties change.object()
ж	DATA	change.object() create.value()
	STATEXT	change.object()
ıs	BUTTON TBBUTTON RBUTTON	change.object() change.object() change.object()
box	GBOX	change.object()
box	CHBOX	change.object()
ic	ВМР	change.object()
s/ enus	POPUP SYSTEM SUBMENU	add.menu.item() del.menu.item() ins.menu.item() ins.menu.item() repl.menu.item() highlight.menu.item() gray.menu.item() check.menu.item()

The list below describes functions supported by GraPICK:

	Function	Subroutine to perform
1.	Output to status line	sts.line()
2.	Change title of the Window	chg.wdw.title()
3.	Set focus to the value	set.focus()
4.	Change cursor to "Hourglass"	hg.ON / hg.OFF
5.	Activate Message Box	w.msg.box()
6.	Activate Dialog Box	w.dlg.box()
7.	Notify client about FormName	form.fn()
8.	Clear Tool Bar	clear.tb()
9.	Clear window	clear.wdw()

ing Form Items

Edit Mode

ocal Edit mode of the Properties menu lets you inspect or modify properties of the objects he client side.

the object invokes the Properties window for this object.

es of properties values on the Properties window are propagated to the screen when you : OK button.

g the Local Edit mode item of the Properties menu closes the local edit mode.

en modifications can be saved on DOS and/or Pick for further usage after you select the rties mode of the Properties menu.

t Mode

P Edit mode on the Properties menu lets you to inspect or modify properties of the objects n the host (server) through the UPdate processor.

ted (AP Edit mode), the form (".opf" file) is transferred to Pick and every object on the sented as an item on the PD (PickDesktop) file with attributes reflecting the current state of of the object. If you change any value of these properties, the new values are immediately to the screen.

ruise on the "Id" field or right mouse-click on the object to invoke the UPdate processor this object.

g the AP Edit mode on the Properties menu closes the AP Edit mode.

reen modifications are *not* saved on DOS and/or Pick for further usage until you select the rties mode of the Properties menu.

P Edit mode is not fully implemented for most screen or object modifications. The Local is currently the preferred technique.

Getting Input Information From an Object

Once an event is performed on an object (based on the event being previously defined to via one of its properties), such as when a mouse-click occurs on it (ByLClick, ByESC, B) the application can receive this input string using the Pick/BASIC in statement.

Note: When programming properties such as ByLClick etc., the return string must be tern a carriage return, or char(13).

K Windows Term Definitions

h GraPICK means dealing with Microsoft Windows. Microsoft has its own terminology for ncepts and ways of doing things. Here are a few of the more primary terms you will need

a DOS filename extension used by GraPICK for storing its modified form definitions, ng all of the form's objects with their definitions and component objects, etc.

iphics (.bmp)

graphics (BMP) are objects to display graphical data. Bitmaps can be created/modified 1 either the AP/Local Edit modes of the Properties menu or routines of the "gui.lib" file. By a call to the "showicon" routine on the output conversion of a dictionary item (say, e"), this would allow the UPdate processor to display a 256-color bitmap ("*.bmp") ;, by simply indicating its DOS path (e.g., "d:\dos\path\pic.bmp") of where the graphic in DOS. Also, see the program "main" for examples on how to reference a BMP from a ASIC program.

While in the Update processor, only one (1) BMP may be simultaneously displayed in any form (window). Also, the default location of the BMP is the top-right section of the v, so your window should be presized accordingly. The graphic may be moved around in ode and subsequently all graphics will be displayed in that location, if the form is saved.

nic Data Exchange. A Microsoft standard for messaging and exchanging data between ws applications.

oxes are objects to hold/display data of databases, for example, providing access to the data owing selected actions to be performed on the data (such as "cruising" from item to item E UPdate processor.) Objects of this type can be created/modified through either the cal Edit modes of the Properties Menu or routines of the "gui.lib" file.

are the attribute values for a given object. They define actions to be performed when the associated with the object occur. The following list describes correspondence between tes of the "pd" (PickDesktop) file and events defined for the object:

ttribute#

string to be sent by closing the window. string to be sent by left mouse-click on the object.

string to be sent by <Esc> key pressed when on menu.

33	(Reserved)
34	(Reserved)
35	(Reserved)
36	(Reserved)
37	(Reserved)
38	(Reserved)
39	(Reserved)

Focus

A term indicating which data field is currently being examined.

Form

A window object that makes up part of an interface. When the GraPICK screen layou window object should be created first. Window objects can be created/modified throu AP/Local Edit modes of the Properties menu or routines of the "gui.lib" file.

Form Title

The property of the window object to determine the text displayed in the Window's titl the window is minimized, this text is displayed below the icon.

FTP

File Transfer Protocol. A protocol defined for transferring information between compt

GUI

Graphical User Interface (usually pronounced "gooey"). A term used to denote a u using graphical images, icons, pointers and other images. Windows is a GUI inter DOS.

Menu Items

Control objects used to display a customized menu for the application. The m programmed and/or modified through routines of the "gui.lib" file.

ODBC

Open database connectivity. A Microsoft standard for interfacing with databases.

Objects

Elements defining the layout of a screen. There are three categories of objects:

- window,
- dataand
- control.

Every object is explicitly defined by the list of its properties.

operties

It values for a given object, such as color, type of font, size, location, etc. This includes

st of actions to be performed when various predefined events occur that have been

ated to the object. The following list describes the correspondence between attributes of the

PickDesktop) file and properties of the object:

```
ute#
              Property
              object type (WINDOW, DATA, BUTTON, TBBUTTON, GBOX, BMP,
              STATEXT, RBUTTON, CHBOX)
              (Reserved)
              (Reserved)
              horizontal coordinate (pixels)
              vertical coordinate (pixels)
              width of an object (pixels)
              height of the object (pixels)
              (Reserved)
              (Reserved)
              (Reserved)
              font italic
              font underlined
              font strikeout
              size of font (pixels)
              name of font ("script", "modern", etc.)
              color of background
              color of foreground
              (Reserved)
              text to be displayed on a control
              full path name of .bmp
              title of the WINDOW object
              (Reserved)
              Style 3D
              (Reserved)
              (Reserved)
              (Reserved)
              (Reserved)
              (Reserved)
              (Reserved)
              (Reserved)
              (Reserved)
              See: Events
              See: Events
```

See: Events See: Events See: Events

)	Grapich us

35	See: Events
36	See: Events
37	See: Events
38	See: Events
39	See: Events
40	menu item grayed
41	menu item "bar broken"
42	menu item "broken"
43	menu item right aligned
44	menu item checked
45	menu item separated

Note: As these are being extended, their attribute numbers are subject to change.

OLE

60

Not a Spanish expression of excitement, but an acronym for Object Linking and En Microsoft standard for supporting embedded objects within objects.

Properties

See "Object Properties."

Tag Fields

Fields are static control objects logically bound to corresponding Data Boxes. Cruis operations can be performed when on the Tag Field as well as when on the bound Data Objects can be created/modified through either the AP/Local Edit modes of the Propor routines of the "gui.lib" file.

3-D Presentation

An optional style of the window. This property is inherited by all objects of the windo

Note: When in 3-D mode, objects are system-colored and use a fixed border style.

Window

See "form."

les

ing are some sample routines that demonstrate some of the features of GraPICK.

les of GraPICK via Pick/BASIC programs

b,samples" file provides you with two programs to demonstrate methods of writing ick/BASIC applications: "demo.1" and "main."

emo.1"

e shows an example of how an ordinary Pick/BASIC data-entry screen can look after being PICK-aware."

andard" is also provided for reference. It is the same routine as "demo.1," but it was the sion, before it was modified to work with GraPICK.

les prompt the user to input data and check validity of inputs against the length restrictions ks.

nteresting part of "demo.1" is the "data.entry.screen" subroutine that creates a Windowsn and prompts for values. It performs the following:

es access to GraPICK constants and definitions, such as names of properties, valid values of ties etc. (line #42).

a WINDOW object with Exit event being performed when the window is closed (lines ').

the Exit Tool Bar Button to close and delete the window on the condition that all data ed are received,

ifirmation on the exit is got (lines #59-67).

prompts and empty data fields for input, sized according to their definitions (lines #69-

es the data-input mode through the Pick/BASIC "in" statement until the Exit event is (lines #106-158).

When a value is received, it is examined. If it is a data-entry value (lines #128-141) or the sent by the Exit button or the user's attempt to close the window (lines #144-156), it deletes ndow when the Exit event occurs.

t, click on the Exit button.

054 P<STYLE3D> = SET.OFF

```
001 1
002 * demo data-entry screen program
003 * 17 may 94 kp
004 *
005 *---- data defining grapick screen and input data
006 header = "Welcome to GraPICK" ;* window title
007 *- prompts ----- number of values -- length restrict -- input maska
008 tags = "Customer Id:"; Vqty =1; Length =8; Maska = 'mcp'
009 tags<-1>="Name:" ; Vqty<-1>=1;
010 tags<-1>="Phone(s):" ; Vqty<-1>=2;
                                                          Maska<-1>='mc/n
                                          Length<-1>=25;
                                         Length<-1>=9;
                                                          Maska<-1>='mc/a
011 tags<-1>="Address:"; Vqty<-1>=3; Length<-1>=25; Maska<-1>=''
012
                ;* input data. will be return by the 'data.entry.screen' su
013 Input = ""
014
015 *-- call subr which 1.creates a grapick screen 2.gets input data like
016 *-- "input @(col,row) var 'maska'" <problems with 'input var,len:{_}'>
017 *-- returns dim array Input and 'done'-flg (=0 if data-entry interrupted
018 *-- by user not completed )
019
020 gosub data.entry.screen
021
022 crt; crt '---- RESULTS ':
023 if done then crt '(completed)': else crt '(not completed)':
024 crt '----'
025 mask = 'm#':len+2
026 for i=1 to max
      crt tags<i> mask:Input<i,1>
027
       for j=2 to Vqty<i>; crt space(len+2):Input<i,j>; next j
028
029 next i
030 crt '-----'
031
032
033 STOP ;* end of demo input
034 *-----
035 data.entry.screen:
036 !!subroutine data.entry.screen(header,tags,Vqty,Length,Maska,Input,don
038 equ AM to char(254), VM to char(253)
039 equ ENTER to 13
040 equ EXIT to char(24), CTRLZ to char(26)
041
042 $include gui.lib $properties
043
                     ;* window name
044 Wn = system(16)
045
046 *--- create a screen
047 P = ""
048 P<OBJ.TYPE> = WINDOW
049 P<BACKCOLOR> = "#15"
050 P<FORECOLOR> = "#3"
051 *- 1. create a window < with Exit button and ExitByClose >
052 P < X > = 1; P < Y > = 1; P < WIDTH > = 400; P < HEIGHT > = 350
053 P<TITLE> = header
```

```
LOSE> = CTRLZ: EXIT: char(ENTER)
reate.object(Wn, 1, P)
create an Exit button.
.TYPE> = TBBUTTON
= 22; P < Y > = 1; P < WIDTH > = 50; P < HEIGHT > = 16
FION> = "EXIT"
4E> = "Script"
CLICK> = CTRLZ: EXIT: char(ENTER)
create.object(Wn, dcount(tags,am)+1, P)
create tags and empty fields for data objects.
dcount(tags,am)
=1 to max
len < len(tags<i>) then len = len(tags<i>)
î.
= 8
     ;* width of a sym
15; y1 = 10; w = wsym*(len+1); h = 28
.TYPE> = STATEXT
KCOLOR> = "#15"
ECOLOR> = "#3"
ERLINE> = SET.ON
.TYPE> = DATA
dcount (tags, am)
obj=1 to max
<CAPTION> = tags<Nobj>
<X> = XX; P<Y> = Y1+4; P<WIDTH> = W; P<HEIGHT> = h-4
all create.object(Wn, Nobj, P)
\langle X \rangle = xx+w+s; D \langle Y \rangle = y1
<WIDTH> = wsym*(Length<Nobj>+3); D<HEIGHT> = h*Vqty<Nobj>
<BYLCLICK> = CTRLZ :Nobj: "V"
all create.object(Wn, Nobj, D)
or Nval=1 to Vqty<Nobj>
 call create.value( Wn, Nobj, Nval, """)
ext Nval
1 = y1 + h*Vqty<Nobj> + s
Nobj
rearrange objects of the form
rearrange.objects(Wn)
loop for input data
         ;* flag all necessary values are entered
= 0
         ;* flag if it's an attempt to leave the data-entry screen
= 1; Nval = 1
```

64

```
;* main loop to get all necessary values
110 loop until left do
       call set.focus(Wn,Nobj,Nval); * set focus (cursor) to the current valu
111
                                        ;* currently entered value buffer
112
       string = ""
       ECHO OFF
113
114
       loop
115
          in key
116
       until key=ENTER do ;*or Length<Nobj> exceeded
         string = string : char(key)
117
118
       repeat
       ECHO ON
119
120
      *-- parse the string : info & virtual sequence ByClick
121
       posCTRLZ = index( string, CTRLZ, 1)
122
123
       if posCTRLZ then
          str = string[1, posCTRLZ-1]
124
          vir = string[ posCTRLZ+1,9999]
125
       end else str = string; vir = ""
126
127
       if str # "" then
                            ;* there is entered data
128
          cstr = str
129
130
131
         *-- check maska
          if Maska<Nobj> # "" then cstr = cstr Maska<Nobj>
132
133
         *-- check length
134
          if Length<Nobj> # "" then cstr = cstr[1,Length<Nobj>]
135
136
137
         *-- re-fill the value if changed
          call create.value(Wn, Nobj, Nval, cstr)
138
139
140
          Input<Nobj, Nval> = cstr
141
       end
       if not(done) then done = ( Nobj = max and Nval = Vqty<Nobj> )
142
143
                             ;* user's attempt to leave the screen
144
       if vir = EXIT then
          if done then
145
146
             left=1
                              ;* ok
147
          end else
             call w.msg.box(2,3,'WARNING','Data entry not completed. Exit?',
148
             left = (answ = YES)
149
150
          end
151
       end else
          if vir[1,1] # 'i' then
152
             Nobj = field( vir, 'V', 1)
Nval = field( vir, 'V', 2)
153
154
155
          end else execute vir[2,99999]
156
       end
157
158 repeat
160 *-- End of GraPICK session. deleting the window
161 call del.wdw("")
162
163 return
```

User's Guide

Grafich US

66

program "main"

This routine gives more samples of GraPICK capabilities.

Note: lines #6-7 are the includes of predefined constants and GraPICK definitions, incl color table. The routine demonstrates how to:

- create a WINDOW object (lines #16-26).
- create a Main Menu object (lines #29-40).
- create 2-level Submenus (lines #42-48).
- perform the operations possible on Menu (lines #50-95).
- create objects such as:
 - Tool Bar Button (lines #100-109).
 - Group Box (lines #112-124).
 - Button (lines #126-137).
 - Radio Button (lines #139-151).
 - Check Box (lines #153-165).
 - Graphic (lines #167-176).
- color palette as a set of Static Texts (lines #178 197).
- Static Text with updated fonts properties (lines #199 212).
- change the Window Title (lines #214-216).
- output to the Status Line (lines #219-221).
- create two Tags/DataFields objects varying fonts, colors, sizes of the objects and p.
 Tags' events by the mouse-click (lines #224-292).
- clear/delete value in the multivalued data field (lines #295-297).
- clear the Tool Bar (line #300).
- get input from all the above objects and react on it (lines #305-344).
- activate Windows Message Box by the mouse-click on Tag (lines #238-239).
- activate Windows Dialog Box (lines #326-328).
- set focus to the data value (line #257).
- delete Window by the user's attempt to close the window or mouse-click on the Exit | #25-26, #108-109).

To exit, click on the Toolbar button. Note the effects of using the slide-bar on the "First" c

```
001 * program to test GUI.exe performance and/or give samples of Windows
002 * objects creation.
003 * 12 jan 94 kp.
004 * Updated by: 14 jul 94 kp - new version
005 *----
006 $include gui.lib $properties
                                ;* 28-color table (dim TC(28)
007 $include gui.lib $colors
800
009 equ AM to char(254), VM to char(253)
010 equ ENTER to 13, CTRLZ to char(26)
011 *----
012 Nw = system(16)
                           ;* Window Name
013 EXIT = 'i':'delete.wdw'
014 DIALOG = 'dialog'
015
```

```
CREATE WINDOW
                     ;* Properties of an object
.TYPE> = WINDOW
      = 10
      = 15
TH>
      = 600
     = 400
GHT>
                    ; * ice-blue background
KCOLOR>= TC(22)
     = "Window Title"
LOSE> = CTRLZ : EXIT: char (ENTER)
create.object(Nw, 1, P )
YPASS
CREATE MAIN MENU.
    ;* Properties of Main Menu.
''; M2 = ''
            ;* Properties of SubMenus.
=1 to 3
APTION, i> = "Menu Item &":i
APTION, i> = "Mode &":i
APTION, i> = "SubMode &":i
.BREAK, 2> = SET.ON
GN, 3> = RIGHT
EAK, 3> = SET.ON
all create.menu( M )
reate a first level Submenu.
ath = 1; MenuType = SUBMENU
all create.submenu( path, M1, MenuType )
------
reate a second level Submenu.
ath = 1:am:3;
all create.submenu(path, M2, SUBMENU)
----------
    TESTING MENU PART ------
Activate the Submenu if it is a standalone PopUp.
m = 50; ym = 125
call activate.menu( xm, ym )
dd an item to the first level Submenu.
=, 1.1
CAPTION> = "NewMenuItem"
= 0
add.menu.item( path, item, SUBMENU )
reate a first level Submenu.
= 3
create.submenu( path, M2, SUBMENU )
  Replace the second item of the first level Submenu.
tem = ''
tem<CAPTION> = "Replaced value"; path = 3:am:2
all repl.menu.item( path, item, SUBMENU )
nsert an item before the third item of the first level Submenu.
```

```
071 item = ''
072 item<CAPTION> = "Inserted value"
              = SET.ON
073 item<GRAY>
074 path = 3:am:3
075 !!call ins.menu.item( path, item, SUBMENU )
076
      * Delete the second item from the first level Submenu.
077
    path = 3:am:2
078
079 ! call del.menu.item( path, SUBMENU )
080
081 * Set the second item of the first level Submenu grayed.
082 !!call gray.menu.item( path, SET.ON, SUBMENU )
083 *-----
084 * Set the third item of the first level Submenu checked.
085 path = 3:am:3
086 !!call check.menu.item( path, SET.ON, SUBMENU )
      *----
087
088 * Set the fourth item of the first level Submenu highlight.
089 \text{ path} = 3:am:4
090 !!call highlight.menu.item( path, SET.ON, SUBMENU )
091 *--- end of TESTING MENU part -----
092 *
093 *
       Rearrange menu because of changes
094 call rearrange.menu
095 *-- END of MENU-part -----
096 *----
097 BYPASS:
              ;* Counter of Controls
098 \text{ NCobj} = 1
099 *-----
100 * Create a tool bar button.
101 P = ''
102 P<OBJ.TYPE> = TBBUTTON
103 P<CAPTION> = "Toolbar Button"
104 P<X> = 30
104 P<X>
105 P<Y>
             = 1
             = 120
106 P<WIDTH>
107 P<HEIGHT>
              = 18
108 P<BYLCLICK> = CTRLZ:EXIT:char(ENTER)
109 call create.object( Nw, NCobj, P)
110
111 *-----
112 * Create a group box
113 NCobj = NCobj+1
114 P = ''
115 P<OBJ.TYPE> = GBOX
116 P<CAPTION> = "Group Box"
117 P<X>
              = 10
118 P<Y>
              = 240
119 P<WIDTH>
              = 270
120 P<HEIGHT>
              = 80
                             ;* sea blue
121 P<BACKCOLOR> = TC(11)
                             ;* violet dark
122 P<FORECOLOR> = TC(26)
123 P<FNAME> = 'script'
124 call create.object(Nw, NCobj, P)
```

```
reate a button.
= NCobj+1
.TYPE> = BUTTON
FION> = "Button"
       = 175
       = 270
ΓH>
       = 70
     = 20
GHT>
ME> = 'script'
CLICK> = "tufta"
create.object(Nw, NCobj, P)
ate a radio button
= NCobj+1
.TYPE> = RBUTTON
FION> = "Radio Button"
       = 20
       = 270
       = 120
GHT>
       = 20
KCOLOR > = TC(7)
                  ;* yellow
                 ;* violet (dark)
ECOLOR> = TC(26)
LIC> = SET.ON
create.object(Nw, NCobj, P)
ate a check box
= NCobj+1
.TYPE> = CHBOX
FION> = "Check Box"
       = 20
       = 295
       = 120
TH>
       = 20
                  ;* yellow
;* violet (dark)
KCOLOR > = TC(7)
ECOLOR> = TC(26)
LIC> = SET.ON
create.object(Nw, NCobj, P)
ate a graphic
= NCobj+1
.TYPE> = BMP
TURE> = "advpick.bmp"
       = 290
       = 30
      = 320
= 240
TH>
GHT>
create.object(Nw, NCobj, P)
lette
30
```

```
181 P<OBJ.TYPE> = STATEXT
182 P<X> = 10
183 P<WIDTH> = 19
183 P<WIDTH> = 19
184 P<HEIGHT> = 30
185 for i=1 to 28 step 2
    NCobj = NCobj+1
186
187
       P < Y > = yp
    P<BACKCOLOR> = TC(i)
188
      call create.object(Nw, NCobj, P)
189
190
      NCobj = NCobj+1
191
      P<Y> = yp + P<HEIGHT>
192
      P<BACKCOLOR> = TC(i+1)
193
194
       call create.object(Nw, NCobj, P)
195
196
       P < X > = P < X > + P < WIDTH >
197 next i
198 *----
199 * Create a static texts
200 NCobj = NCobj+1
201 P = ''
202 P<OBJ.TYPE> = STATEXT
203 P<CAPTION> = " Static Text"
               = 370
204 P<X>
205 P<Y>
               = 295
206 P<WIDTH>
               = 160
207 P<HEIGHT> = 20
208 P<BACKCOLOR> = TC(14)
209 P<FORECOLOR> = TC(22)
210 P<FSIZE> = 20
211 P<FNAME> = 'courier'
211 P<FNAME>
212 call create.object(Nw, NCobj, P)
213 *-----
214 * Change the window title.
215 NewTitle = "My NEW title"
216 ! call change.wdw.title( NewTitle )
217 *-----
218
219 * Output to the Status line.
220 txt = "Status Line"
221 call sts.line( txt )
222 *----
223 bypass1:
224 * Create the first object/attribute
225 * Substitute-header (tag)
       Substitute-header ( tag )
226 NCobj = NCobj+1
227 P = ''
228 P<OBJ.TYPE> = STATEXT
229 P<CAPTION> = "First "
230 P < X > = 7
231 P<Y>
               = 120
232 P<WIDTH> = 60
233 P<HEIGHT> = 20
234 P<BACKCOLOR> = TC(25) ;* pink
235 P<FORECOLOR> = TC(4) ;* gray
```

/ U

val=1 to 3

```
ZE>
       = 20
        = "Script"
νE>
CLICK> = CTRLZ:"i":"get.msg.box":char(ENTER)
create.object(Nw, NCobj, P)
    Empty field.
                    ;* Counter of DATA objects
= 1
.TYPE> = DATA
        = 70
        = 120
       = 90
ΓH>
3HT>
       = 86
create.object(Nw, NDobj, P)
    Fill the attribute by values.
val=1 to 5
l create.value( Nw, NDobj, Nval, "Value ":Nval )
Nval
 Set focus to the second value
= 2
set.focus( Nw, NDobj, Nval )
        Delete the second value
Nval = 2
call del.value( Nw, NDobj, Nval)
Create the second object/attribute
= NCobj+1
.TYPE> = STATEXT
       = "Second "
rion>
        = 170
        = 120
ΓH>
       = 50
GHT>
       = 20
                    ;* pink
KCOLOR> = TC(25)
ECOLOR> = TC(4)
                     ;* gray
ERLINE> = SET.ON
    = 'script'
ME>
CLICK> = DIALOG:char(ENTER)
create.object(Nw, NCobj, P)
e second data object
= NDobj+1
.TYPE> = DATA
       = 225
        = 120
      = 60
= 86
TH>
GHT>
create.object(Nw, NDobj, P)
```

```
call create.value( Nw, NDobj, Nval, "Val ":Nval )
291
292 next Nval
293 *-----
294 *
        Clear/delete the first object/attribute
295 *
296 NDobj = 1
297 ! call clear.data.obj( Nw, NDobj )
298 *-----
299 * Clear Tool Bar.
300 !call clear.tb
301 *-----
302 * Activate all pre-defined objects
303 !call rearrange.objects( Nw )
304 *-----
305 *--- loop for input data
306 left = 0 ;* flag if it's an attempt to leave the data-entry screen
                                ;* main loop to get input
307 loop until left do
                                ;* currently entered value buffer
      string = ""
308
309
      ECHO OFF
310
      loop
311
        in key
      until key=ENTER do
312
        string = string : char(key)
313
314
      repeat
      ECHO ON
315
316
      *-- parse the string : info & virtual sequence ByClick
317
318
      posCTRLZ = index( string, CTRLZ, 1)
      if posCTRLZ then
319
320
         str = string[1, posCTRLZ-1]
         vir = string[ posCTRLZ+1,9999]
321
322
      end else str = string; vir = ""
323
      if str # "" then
324
         if str = DIALOG then
325
            content = "delete.wdw"; ttl = "Dialog Box Title"
326
            prompt="Dialog Box Prompt"
327
            call w.dlg.box( ttl, prompt, content, line)
328
            vir = 'i': line ;* TCL command to be executed
329
         end else
330
            call create.value(Nw,NDobj,Nval,str)
331
332
         end
333
      end
                           ;* user's attempt to leave the screen
      left = (vir = EXIT)
334
335
      if vir[1,1] # 'i' then
336
         NDobj = field( vir, 'V', 1)
Nval = field( vir, 'V', 2)
337
338
         call set.focus(Nw,NDobj,Nval);* set focus to the current value
339
      end else
340
         tcl.cmnd = vir[2,99999]
341
         if tcl.cmnd # '' then TCL tcl.cmnd
342
343
      end
344 repeat
345
```

nd of GraPICK session.

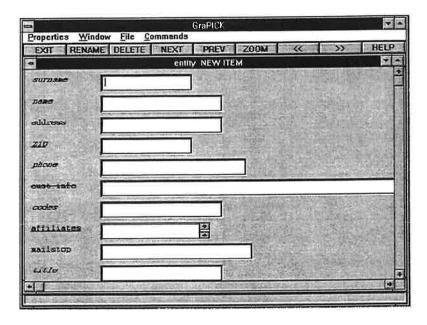
GLALICK OS

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"u entity (w)" - a sample UPdate command
A sample UPdate processor screen using the "(w)" option.

First, log to the "pa" account. Then, use the UPdate processor to update an item:

Enter: logto pa
Enter: u entity (w)



Try experimenting with data in the different attributes; and how you can "cruise" and scroll through different values.

Also, try modifying the entry screen by changing the attribute-defining items' Input Prowith the "wn" processing code.

See *The Advanced Pick Reference Guide* (formerly *Epick*) for more information on using processor. The documentation herein is mostly supplemental in nature.

K Troubleshooting

problems, try re-installing the product first. ems you may encounter are:

.n program "gui.import", user exit "00B2" is not valid" we not exec'ed the gui abs.

1e proper gui abs before running gui applications, usually "abs.gui.temp".

.n program 'setup.grapick': 'MDS' is not a file name" e in an account that does not have a reference (Q-pointer) to the System Dictionary (MDS).

ition error: GUI caused a page fault @ 0016:009B" ive loaded EMM386 into high memory ("loadhigh emm386..."), which is not recommended dows for Workgroups.

MM386 into conventional memory.

Protection Fault in module BC30RTL.DLL @ 001:4F65" e trying to start Pick improperly from an entry in the "AUTOEXEC.BAT" file and then Windows.

rting Pick by placing the Pick icon in the Windows Startup folder.

Ting 1 fok by placing the 1 fok feet in the windows out up 10 feet

oes not seem to be working. Editing an item in the Update processor merely brings up the ${\bf n}$ and list of items.

ive not exec'ed the gui abs.

s and try again.

sists, then the gui abs may be corrupted, and GraPICK may need to be reinstalled.

eems to work fine when running the Pick/BASIC programs, but it does not work with the cessor.

ive not exec'ed the gui abs.

ne proper gui abs before running GUI applications, usually "abs.gui.temp".

get really stuck or lost, you can always close and restart the GraPICK program in Windows g GraPICK as a terminal emulator, force your application back to TCL.

case situation (or if the Windows environment is new to you), you may have to restart nd start over again. Remember, in such cases, that GraPICK is only the client and should be as a "terminal" device. The server (host) process should still be running the process that g when you had to restart GraPICK, so if it doesn't immediately recognize your keyboard you may have to exit the program running on the server using the sequences that the

program allows for; otherwise abort the program using a <Break> and "end" sequer process was enabled for such).

There are numerous ways to close a GraPICK screen:

- You may double-click the mouse on the top-left box of the current window (a Windo for closing a Windows program) or
- use a button, such as "Exit" or
- use pull-down menus or
- use the standard application-supported escape sequences through the keyboard (i.e., $< \ell$

Also, refer to *The Advanced Pick Reference Guide* (formerly *EPick*) for documentation o features and capabilities of the UPdate processor.

any other problems with GraPICK, please contact:

ns Service

ning Ave. 92714

ns Support - Europe

port - Europe

v CV35 7LS

gdom

ns Africa (Pty) Ltd.

5277 1018 :a

deration

Phone: [27] 21-240656

Fax:[27] 21-247761

ns Ltd.
Profsojuznaja Str. 84/32
ish Applied Mathematics Institute
ademy of Sciences
SP-7 Russia

Phone: [7] 095-33-36456 Fax:[7] 095-33-38000

Phone: [1] 714/261-1875

Phone: [44] 1203-537027 Fax:[44] 1203-537045

Fax:[1] 714/261-5308

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