

A Simple SMARTOBJECT—PGASet and PGAGet

pgaset

```

/* {set Prop value [handle]} */

&IF "{3}":U = "":U &THEN
  &IF DEFINED(xp{1}) NE 0 &THEN
    ASSIGN ghProp = WIDGET-HANDLE(ENTRY(1, TARGET-PROCEDURE:ADM-DATA, CHR(1)))
    ghProp = ghProp:BUFFER-FIELD('{1}':U)
    ghProp:BUFFER-VALUE = {2}
  &ELSE
    dynamic-function("set{1}":U IN TARGET-PROCEDURE, {2})
  &ENDIF
  &ELSE &IF DEFINED(xp{1}) NE 0 &THEN
    ASSIGN ghProp = WIDGET-HANDLE(ENTRY(1, {3}:ADM-DATA, CHR(1)))
    ghProp = ghProp:BUFFER-FIELD('{1}':U)
    ghProp:BUFFER-VALUE = {2}
  &ELSE
    dynamic-function("set{1}":U IN {3}, {2})
  &ENDIF
&ENDIF

```

pgaget

```

&IF "{3}":U = "":U &THEN
  &IF DEFINED(xp{1}) NE 0 &THEN
    ASSIGN ghProp = WIDGET-HANDLE(ENTRY(1, TARGET-PROCEDURE:ADM-DATA, CHR(1)))
    ghProp = ghProp:BUFFER-FIELD('{1}':U)
    {2} = ghProp:BUFFER-VALUE
  &ELSE
    {2} = dynamic-function("get{1}":U IN TARGET-PROCEDURE)
  &ENDIF
  &ELSE
    &IF DEFINED(xp{1}) NE 0 &THEN
    ASSIGN ghProp = WIDGET-HANDLE(ENTRY(1, {3}:ADM-DATA, CHR(1)))
    ghProp = ghProp:BUFFER-FIELD('{1}':U)
    {2} = ghProp:BUFFER-VALUE
  &ELSE
    {2} = dynamic-function("get{1}":U IN {3})
  &ENDIF
&ENDIF

```

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- SMARTOBJECTS communicate with each other by storing and retrieving information about themselves in dynamic temp-tables. Each SMARTOBJECT that is *not* a super procedure has its own dynamic temp-table. Each field in the dynamic temp-table is called a *property*. Only one record is created for each dynamic temp-table.
- SMARTOBJECTS also communicate with each other by executing functions in themselves and other objects.
- The **{set}** and **{get}** include files are used to store and retrieve information from these dynamic temp-tables and to execute functions.
- The **{set}** include consists of two required arguments and one optional one.

- ◆ For example:

```
{set dataModified yes}
```

will set the **dataModified** property for the current object to **yes**.

- ◆ The example:

```
{set dataModified yes hviewer}
```

will set the **dataModified** for the **hviewer** object to **yes**.

- The **{get}** include also consists of two required arguments and one optional one.

- ◆ For example:

```
{get datasource hdsource}
```

will retrieve the **datasource** for the current object and store the value in a variable called **hdsource**.

- ◆ The example:

```
{get datasource hdsource hviewer}
```

will retrieve the **datasource** for the **hviewer** object and store the value in a variable called **hdsource**.