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## 1 Routine/Function Prologues

## 1.1 Fortran: Module Interface GC\_SomethingIncludeFile.h

This include file contains the various parameters that will allow the module and routine to do stuff to various things in various routines in various places.

## **PUBLIC TYPES:**

```
TYPE t_GeosChemSomething
 !%%% declare stuff here %%%
END TYPE t_GeosChemSomething
```

## PUBLIC MEMBER FUNCTIONS:

None

## **PUBLIC DATA MEMBERS:**

```
INTEGER(ESMF_KIND_I8), PUBLIC, PARAMETER :: myIntParam ! INTEGER value REAL(ESMF_KIND_I8), PUBLIC, PARAMETER :: myRealParam ! REAL*8 value
```

## **REVISION HISTORY:**

```
21 May 2008 - R. Yantosca - Initial Version
```

## **REMARKS:**

## 1.2 Fortran: Module Interface GC\_SomethingMod.F90

This module contains the data type to declare a Something object and the methods to work with the Something object.

## **INTERFACE:**

MODULE GC\_SomethingMod

## **USES:**

USE ESMF\_Mod IMPLICIT NONE

## PUBLIC TYPES:

```
TYPE t_GeosChemSomething
!... declare stuff here
END TYPE t_GeosChemSomething
```

## PUBLIC MEMBER FUNCTIONS:

PUBLIC :: GC\_SomethingRoutine1
PUBLIC :: GC\_SomethingFunction1

## PUBLIC DATA MEMBERS:

INTEGER(ESMF\_KIND\_I4), PUBLIC :: myPublicVariable ! public data variable

## REVISION HISTORY:

21 May 2008 - R. Yantosca - Initial Version

## **REMARKS:**

Protex is great!

## 1.2.1 GC\_SomethingRoutine1

This routine does something to the input variable and returns the result in the output variable.

## **INTERFACE:**

SUBROUTINE GC\_SomethingRoutine1( input, inpout, output, status )

## **INPUT PARAMETERS:**

INTEGER(ESMF\_KIND\_I4), INTENT(IN) :: input ! Input variable

## INPUT/OUTPUT PARAMETERS:

INTEGER(ESMF\_KIND\_I4), INTENT(IN) :: inpout ! In/out variable

#### **OUTPUT PARAMETERS:**

INTEGER(ESMF\_KIND\_I4), INTENT(IN) :: output ! Output variable

## **REVISION HISTORY:**

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#### **REMARKS:**

Protex is great!

## 1.2.2 GC\_SomethingFunction1

This function does something to the input variable and returns the result in the value variable.

## **INTERFACE:**

```
FUNCTION GC_SomethingFunction1( input ) RESULT( value )
```

## INPUT PARAMETERS:

INTEGER(ESMF\_KIND\_I4), INTENT(IN) :: input ! Input variable

## **OUTPUT PARAMETERS:**

INTEGER(ESMF\_KIND\_I4), INTENT(IN) :: value ! Output variable

## **REVISION HISTORY:**

21 May 2008 - R. Yantosca - Initial Version

## **REMARKS:**

Protex is great!

## 1.2.3 GC\_Routine.F90

This routine takes in an input variable, does something to it, and then sends out an output variable.

## INTERFACE:

SUBROUTINE GC\_Routine( input, output )

## **USES:**

USE GC\_SomethingMod

## **INPUT PARAMETERS:**

REAL(ESMF\_KIND\_R8), INTENT(IN) :: input ! input variable

## **OUTPUT PARAMETERS:**

REAL(ESMF\_KIND\_R8), INTENT(IN) :: output ! output variable

## **BUGS**:

None known at this time

## SEE ALSO:

GC\_SomethingMod.F90

## SYSTEM ROUTINES:

None

## FILES USED:

GC\_SomethingMod.F90

## REVISION HISTORY:

21 May 2008 - R. Yantosca - Initial version

## **REMARKS:**

Protex is great!