

Adding Parameters to an Apple Event

You can use the **AEPutParamPtr** or **AEPutParamDesc** function to add parameters to an Apple event. When you use either of these functions, the **Apple Event Manager** adds the specified parameter to the Apple event.

Use the **AEPutParamPtr** function when you want to add data specified in a buffer as the parameter of an Apple event. You specify the Apple event, the keyword of the parameter to add, the descriptor type, a buffer that contains the data, and the size of this buffer as parameters to the **AEPutParamPtr** function. The **AEPutParamPtr** function creates the descriptor record and adds the parameter to the Apple event.

For example, this code adds a parameter to the Multiply event using the **AEPutParamPtr** function.

```
#define    keyOperand1 'OPN1'

long      number1;
AppleEvent theAppleEvent;
OSErr     myErr;

number1 = 10;
myErr = AEPutParamPtr(&theAppleEvent, keyOperand1,
    typeLongInteger, &number1, sizeof(number1));
```

In this example, the **Apple Event Manager** adds the parameter containing the first number to the specified Apple event.

Use the **AEPutParamDesc** function to add data specified in a descriptor record to an Apple event. The descriptor record you specify must have been previously created using the **AECreatDesc** or **AEDuplicateDesc** function.

You specify the descriptor type, a buffer that contains the data, and the size of this buffer as parameters to the **AECreatDesc** function. The **AECreatDesc** function returns the descriptor record that describes the data.

This example creates a descriptor record for the second parameter of the Multiply event:

```
long      number2;
AEDesc    multParam2Desc
OSErr     myErr;

number2 = 8;
myErr = AECreatDesc(typeLongInteger, &number2, sizeof(number2),
    &multParam2Desc);
```

In this example, the **AECreatDesc** function creates a descriptor record with the typeLongInteger descriptor type and the data identified in the number2 variable.

Once you have created a descriptor record, you can use **AEPutParamDesc** to add the data to a parameter of an Apple event. You specify the Apple event to add the parameter to, the keyword of the parameter, and the

descriptor record of the parameter as parameters to the **AEPutParamDesc** function.

This example adds a second parameter to the Multiply event using the **AEPutParamDesc** function.

```
#define keyOperand2 'OPN2'  
myErr = AEPutParamDesc(&theAppleEvent,  
keyOperand2,&multParam2Desc);
```

This example adds the *keyOperand2* keyword and the descriptor record created in the previous example as the second parameter to the specified Apple event.

The previous examples showed how to add parameters to the imaginary Multiply event. After adding parameters to an Apple event, you can send the Apple event using the **AESEND** function.