Subject: Re: Invalid Events in Prespec Code Posted by Michael Reese on Fri, 19 Aug 2016 13:03:30 GMT

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Hi,

The valid flag of any value is set if the value was successfully computed. That happens when the

```
set_output(NAME_OF_VALUE, 42)
```

inside any processor is called. That means, if the value has no valid flag set, it was not successfully computed.

Usually, processors are written in a way that they check for the requirements of a computation

```
if (input_valid(NAME_OF_NECESSARY_INPUT_1) &&
input_valid(NAME_OF_NECESSARY_INPUT_2))
{
    double input1 = input_value(NAME_OF_NECESSARY_INPUT_1);
    double input2 = input_value(NAME_OF_NECESSARY_INPUT_2);
    double result = f(input1,input2);
    set_output(NAME_OF_RESULT, result);
}
```

This guarantees to have only meaningful information propagating along the graph. You can try to track down in which processor the information is missing. With that information I could give a more detailed answer.

In general you can try if it is possible to write a more sophisticated algorithm, such as this:

```
if (input valid(NAME OF NECESSARY INPUT 1) &&
input_valid(NAME_OF_NECESSARY_INPUT_2))
 double input1 = input_value(NAME_OF_NECESSARY_INPUT_1);
 double input2 = input value(NAME OF NECESSARY INPUT 2);
 double result = f(input1,input2); // f is an algorithm that calculates the result from the two
given numbers
 set_output(NAME_OF_RESULT, result);
else if (input_valid(NAME_OF_NECESSARY_INPUT_1))
 double input1 = input value(NAME OF NECESSARY INPUT 1);
 // make a clever computation that needs only one of the values
 double result = f2(input1); // f2 is a sophisticated algorithm that calculates the result only with
one number
 set_output(NAME_OF_RESULT, result);
else if (input_valid(NAME_OF_NECESSARY_INPUT_2))
 double input2 = input_value(NAME_OF_NECESSARY_INPUT_2);
 // make a clever computation that needs only the other value
 double result = f3(input2); // f3 is a sophisticated algorithm that calculates the result only with
```

```
one number
  set_output(NAME_OF_RESULT, result);
}
```

Best regards, Michael