

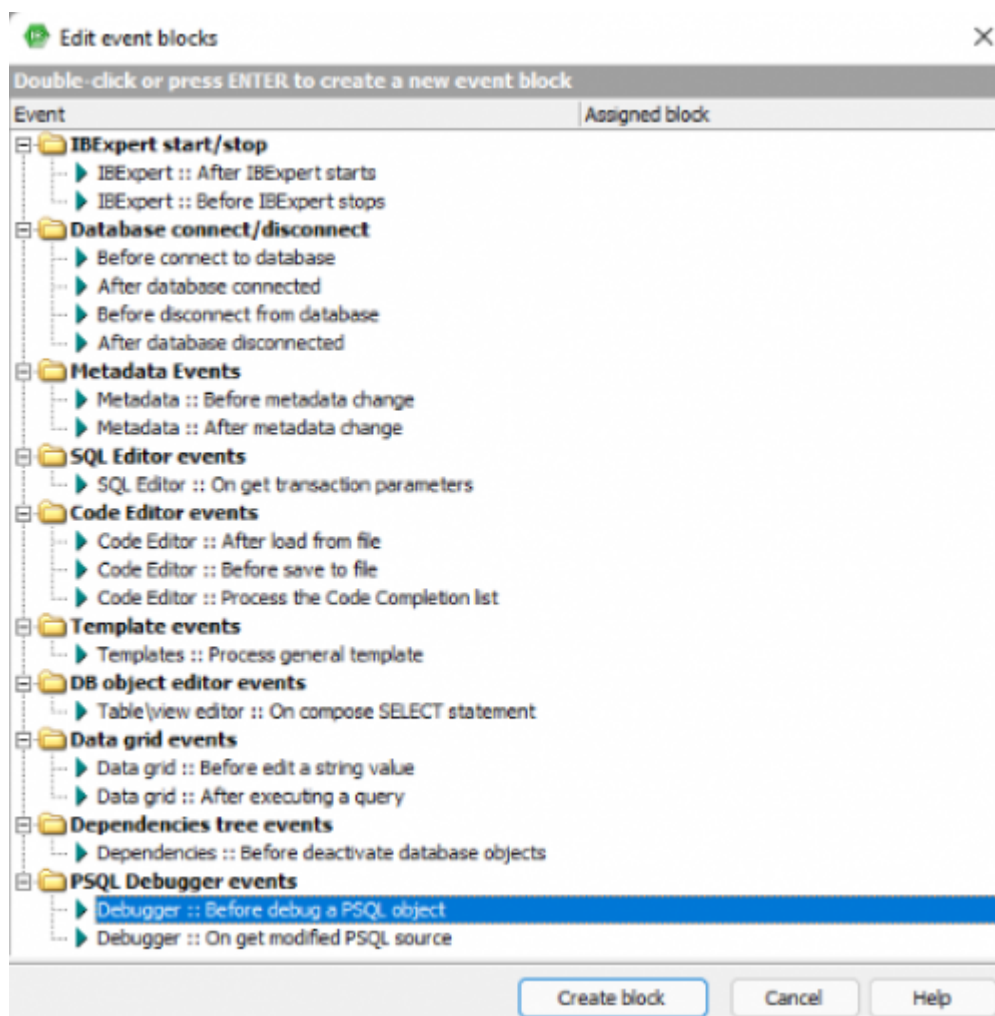
Advanced debugging event block

[White Paper: Advanced debugging event block](#)

The [Event Blocks](#) feature allows you to process certain events within IBExpert.

The latest IBExpert version includes a new feature for advanced debugging, but the blocks have to be added from external templates. These are PSQL Debugger events:

Before debugging a PSQL object and On Get modified PSQL source



So, the first block (**Before debugging a PSQL object**) template now looks as follows:

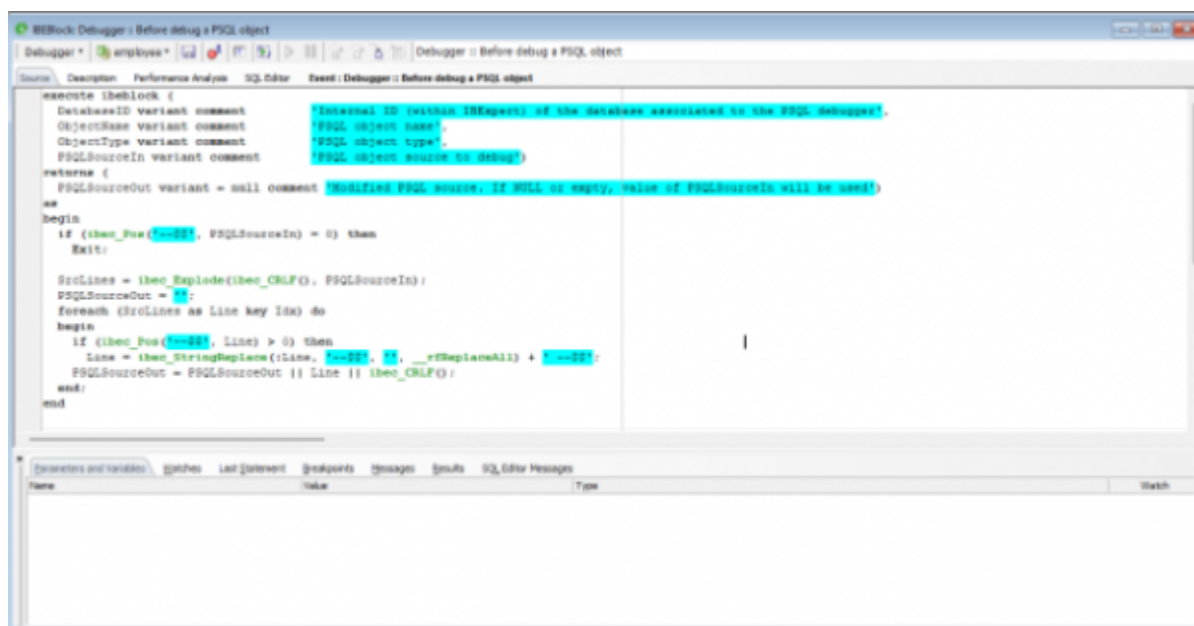
```
execute ibeblock (
    DatabaseID variant comment      'Internal ID (within IBExpert) of the
database associated to the PSQL debugger',
    ObjectName variant comment      'PSQL object name',
    ObjectType variant comment      'PSQL object type',
    PSQLSourceIn variant comment    'PSQL object source to debug')
```

```

returns (
    PSQLSourceOut variant = null comment 'Modified PSQL source. If NULL or
empty, value of PSQLSourceIn will be used')
as
begin
    if (ibec_Pos('--$$', PSQLSourceIn) = 0) then
        Exit;

    SrcLines = ibec_Explode(ibec_CRLF(), PSQLSourceIn);
    PSQLSourceOut = '';
    foreach (SrcLines as Line key Idx) do
        begin
            if (ibec_Pos('--$$', Line) > 0) then
                Line = ibec_StringReplace(:Line, '--$$', '', __rfReplaceAll) + ' --
$$';
            PSQLSourceOut = PSQLSourceOut || Line || ibec_CRLF();
        end;
    end
end

```



And the second one (On Get modified PSQL source) template:

```

execute ibeblock (
    DatabaseID variant comment      'Internal ID (within IBExpert) of the
database associated to the PSQL debugger',
    ObjectName variant comment      'PSQL object name',
    ObjectType variant comment      'PSQL object type',
    PSQLSourceIn variant comment    'PSQL object source to debug')
returns (
    PSQLSourceOut variant = null comment 'Modified PSQL source. If NULL or
empty, value of PSQLSourceIn will be used')
as
begin
    if (ibec_Pos('--$$', PSQLSourceIn) = 0) then

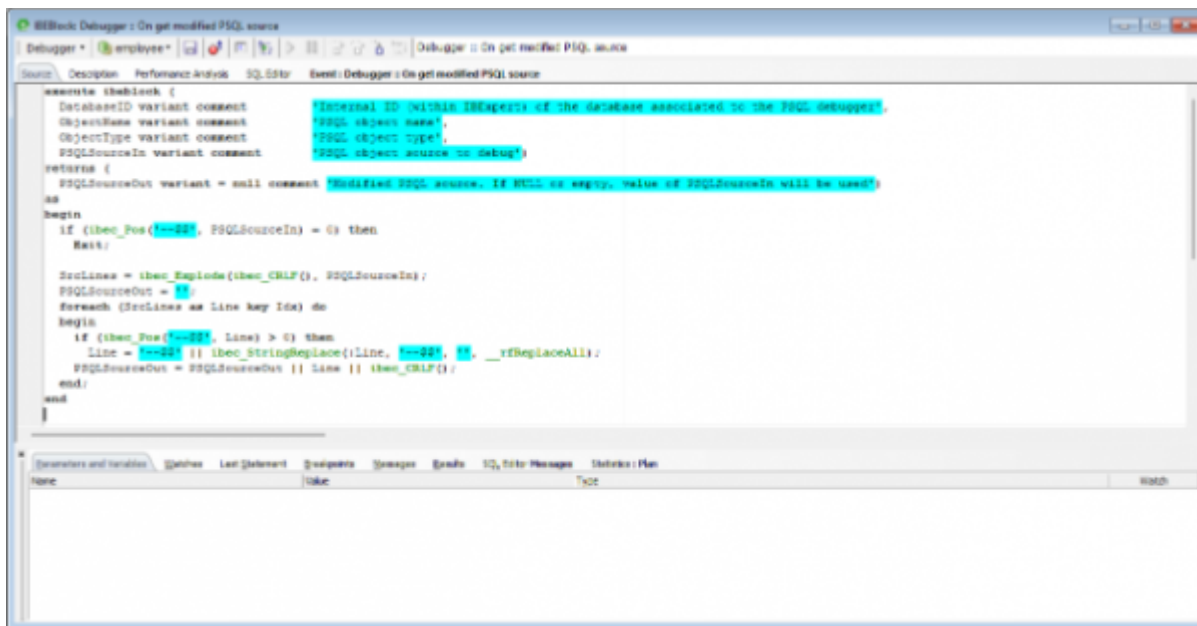
```

```

Exit;

SrcLines = ibec_Explode(ibec_CRLF(), PSQLSourceIn);
PSQLSourceOut = '';
foreach (SrcLines as Line key Idx) do
begin
    if (ibec_Pos('--$$', Line) > 0) then
        Line = '--$$' || ibec_StringReplace(:Line, '--$$', '',
__rfReplaceAll);
    PSQLSourceOut = PSQLSourceOut || Line || ibec_CRLF();
end;
end

```



In practice, this means that you can use the new method of commenting while debugging. To comment you should use following string: **--\$\$**. The comment will be removed while in the debugger. For example:

The original source would be something like:

```

create procedure
returns (id bigint)
as
begin
    for
        select id
        from customer
        --$$ where id=123
        into id
    do
        suspend;
    end

```

The before event block will change the code to:

```
create procedure
returns (id bigint)
as
begin
  for
    select id
    from customer
    where id=123  --$$
  into id
do
suspend;
end
```

and the after event block changes the code back before compilation:

```
create procedure
returns (id bigint)
as
begin
  for
    select id
    from customer
  --$$ where id=123
  into id
do
suspend;
end
```

After that, only when the debugger code was changed and the user confirms the changes to be used for the stored procedure.

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