

## Verilog Translator - Task #5010

### Conditions in IfStatementBranch

06/25/2014 04:20 PM - Mikhail Chupilko

<b>Status:</b>	Closed	<b>Start date:</b>	06/25/2014
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Alexander Kamkin	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.1	<b>Published in build:</b>	r527
<b>Detected in build:</b>	svn		

**Description**

To make Cfg one needs some condition to be set for each branch of "if-else" construction. Why doesn't VeriTrans return the condition in "IfStatementBranch" in "onIfStatementBranchBegin"? It should be negation of the correspondent condition in "onIfStatementBegin".

### History

#### #1 - 07/09/2014 10:00 AM - Alexander Kamkin

- Status changed from New to Resolved
- Target version set to 0.1
- Detected in build set to svn
- Published in build set to r527
- Tracker changed from Support to Task

The getExpression methods have been implemented for the following classes:

- IfStatementBranch - returns the condition associated with the if-statement branch:

Construct	Condition
if(EXPRESSION) then ...	EXPRESSION
if(EXPRESSION) ... else	not (EXPRESSION)

- IfGenerateBranch - returns the condition associated with the if-generate branch:
  - see IfStatementBranch.
- CaseStatementItem - returns the condition associated with the case-statement item:

Construct	Condition
case(EXPRESSION) A:	(EXPRESSION === A)
case(EXPRESSION) A, B, ...:	(EXPRESSION === A) or (EXPRESSION === B) or ...
case(EXPRESSION) default:	not (CONDITION <sub>1</sub> or CONDITION <sub>2</sub> or ...)

- CaseGenerateItem - returns the condition associated with the case-generate item:
  - see CaseStatementItem.

#### #2 - 07/09/2014 10:04 AM - Alexander Kamkin

Here is an example:

```
@Override
public void onIfStatementBranchBegin(final IfStatementBranch node) {
    // Get the branch condition.
    final Expression condition = node.getExpression();

    // Do what you need.
    ...
}
```

**#3 - 08/20/2014 02:13 PM - Alexander Kamkin**

*- Status changed from Resolved to Closed*