

[Dismiss](#)

Join GitHub today

GitHub is home to over 40 million developers working together to host and review code, manage projects, and build software together.

[Sign up](#)

Tree: 1f06f3751d ▼

[Find file](#)[Copy path](#)[rars](#) / [rars](#) / [riscv](#) / [instructions](#) / **LUI.java****TheThirdOne** Fix auipc and lui argument checks

1f06f37 on 7 Jun

[1 contributor](#)[Raw](#)[Blame](#)[History](#)

46 lines (36 sloc) 1.77 KB

```
1  package rars.riscv.instructions;
2
3  import rars.ProgramStatement;
4  import rars.riscv.hardware.RegisterFile;
5  import rars.riscv.BasicInstruction;
6  import rars.riscv.BasicInstructionFormat;
7
8  /*
9   Copyright (c) 2017, Benjamin Landers
10
11  Developed by Benjamin Landers (benjaminrlanders@gmail.com)
12
13  Permission is hereby granted, free of charge, to any person obtaining
14  a copy of this software and associated documentation files (the
15  "Software"), to deal in the Software without restriction, including
```

```
16 without limitation the rights to use, copy, modify, merge, publish,
17 distribute, sublicense, and/or sell copies of the Software, and to
18 permit persons to whom the Software is furnished to do so, subject
19 to the following conditions:
20
21 The above copyright notice and this permission notice shall be
22 included in all copies or substantial portions of the Software.
23
24 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
25 EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
26 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
27 IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR
28 ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
29 CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
30 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
31
32 (MIT license, http://www.opensource.org/licenses/mit-license.html)
33 */
34
35 public class LUI extends BasicInstruction {
36     public LUI() {
37         super("lui t1,100000", "Load upper immediate: set t1 to 20-bit fol
38             BasicInstructionFormat.U_FORMAT, "ssssssssssssssssssss fff
39     }
40
41     public void simulate(ProgramStatement statement) {
42         int[] operands = statement.getOperands();
43         RegisterFile.updateRegister(operands[0], operands[1] << 12);
44     }
45 }
```