

Compilation 2009

The Ultimate Test



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The Setup

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- Take the reference compiler **joos2c**

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- $\text{joos2ify joos2c} \Rightarrow \text{joos2joos2}$

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- $\text{joos1ify joos2joos2} \Rightarrow \text{joos1joos2}$

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- Take the reference compiler **joos2c**
- $\text{joos2ify joos2c} \Rightarrow \text{joos2joos2}$
- $\text{joos1ify joos2joos2} \Rightarrow \text{joos1joos2}$
 - onlinetest capability was lost in this process

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 - onlinetest capability was lost in this process

Now we have a joos2-compiler written in joos1!

The Ultimate Test

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- Compile **joos1joos2** with your joos1-compiler

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The Ultimate Test

- Compile **joos1joos2** with your joos1-compiler
- Compile **joos2joos2** with **joos1joos2**
- Run the onlinetest with **joos2joos2**

The Ultimate Test

- Compile **joos1joos2** with your joos1-compiler
- Compile **joos2joos2** with **joos1joos2**
- Run the onlinetest with **joos2joos2**

Now we have bootstrapped your joos1-compiler into a full featured joos2-compiler!

Line-Up

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01			
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Parser

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01			
02			
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Parser

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01			
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7 sec, Parser: _VALUES_[i].name '.' expecting: '('

8 sec, Parser: _VALUES_[i].name '.' expecting: '('

2 sec, Parser: (TIntegerLiteral)exp.getIntegerLiteral() 'exp' expecting: ')'

Weeding

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01			
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Environments

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01	█		
02	██████████		
03	██████████		
04	██████████		
05	██████████		
06	█		
07	██████████		
08	██████████		
09	██████████		
10	██████████		
11	██████████		
12	██████████		
13	██████████		
14	██████████		
15	██████████		
17	██████████		
18	██████████		
19	██████████		
20	██████████		
21	██████████		
23	█		
24	█		

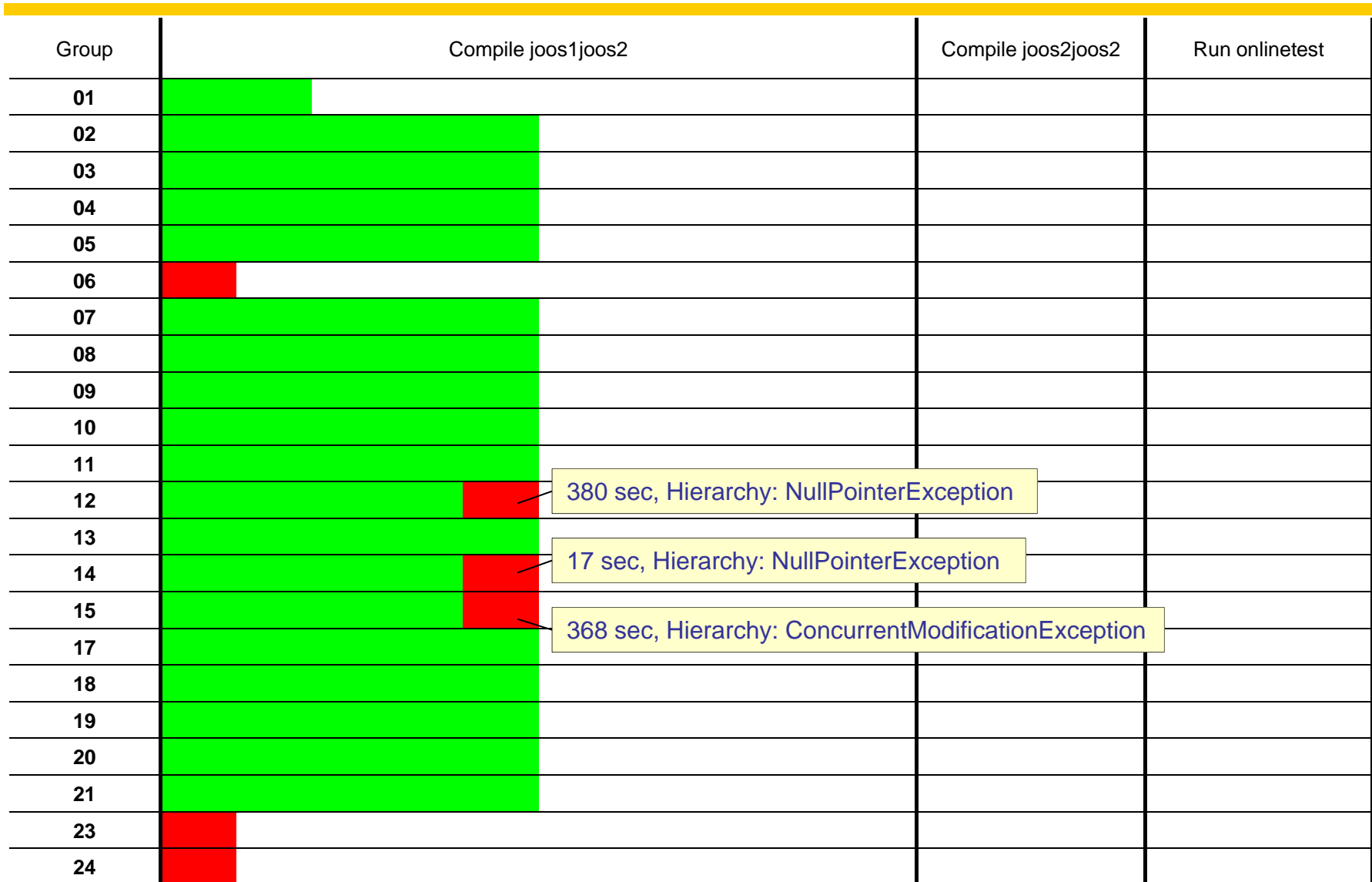
TypeLinking

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01	█		
02	████████████████████		
03	████████████████████		
04	████████████████████		
05	████████████████████		
06	█		
07	████████████████████		
08	████████████████████		
09	████████████████████		
10	████████████████████		
11	████████████████████		
12	████████████████████		
13	████████████████████		
14	████████████████████		
15	████████████████████		
17	████████████████████		
18	████████████████████		
19	████████████████████		
20	████████████████████		
21	████████████████████		
23	█		
24	█		

Hierarchy

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01	█		
02	████████████████████		
03	████████████████████		
04	████████████████████		
05	████████████████████		
06	█		
07	████████████████████		
08	████████████████████		
09	████████████████████		
10	████████████████████		
11	████████████████████		
12	███████████████████	█	
13	████████████████████		
14	███████████████████	█	
15	███████████████████	█	
17	████████████████████		
18	████████████████████		
19	████████████████████		
20	████████████████████		
21	████████████████████		
23	█		
24	█		























Hierarchy



Disambiguation










Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01	██████████		
02	████████████████████		
03	████████████████████		
04	████████████████████		
05	████████████████████		
06	██████████		
07	████████████████████		
08	████████████████████		
09	██████████████████████████████		
10	████████████████████		
11	████████████████████		
12	██████████████████████████		
13	████████████████████		
14	██████████████████████████		
15	██████████████████████████		
17	████████████████████		
18	████████████████████		
19	████████████████████		
20	████████████████████		
21	████████████████████		
23	██████████		
24	██████████		

Disambiguation

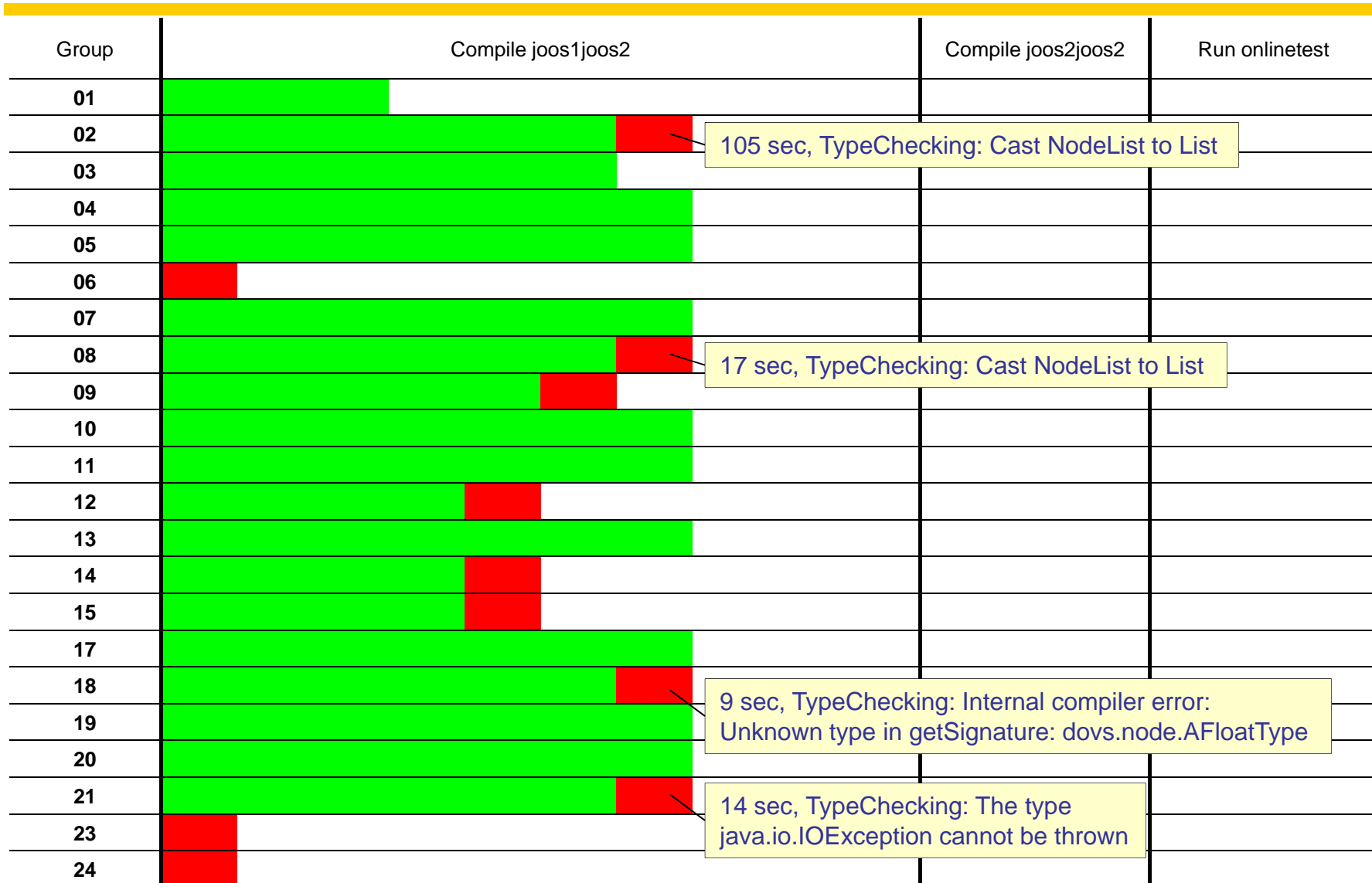
Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01			
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37 sec, Disambiguation: Util.getMethodSignature(node)
 Could not find variable or type Util























TypeChecking

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01			
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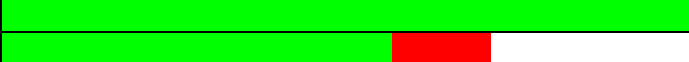





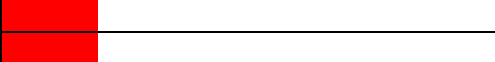
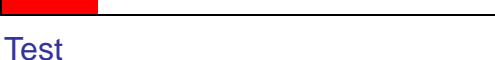


TypeChecking



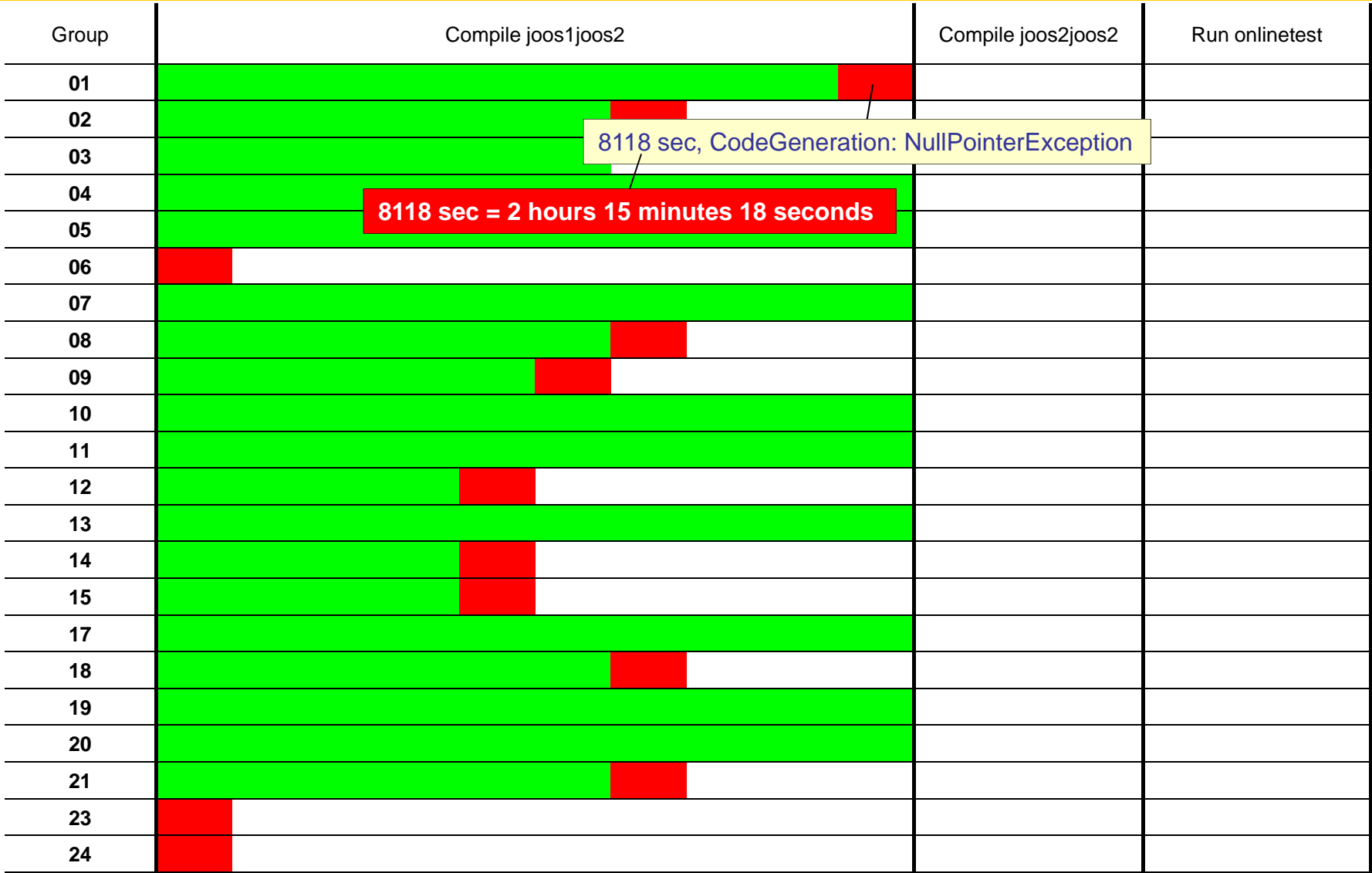
CodeGeneration

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01			
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CodeGeneration

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01			
02			
03	 8118 sec, CodeGeneration: NullPointerException		
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CodeGeneration



... and Group 03 ?























Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
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... and Group 03 ?

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
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Looping! Stopped after 850 seconds:
TypeChecking: Protected members...

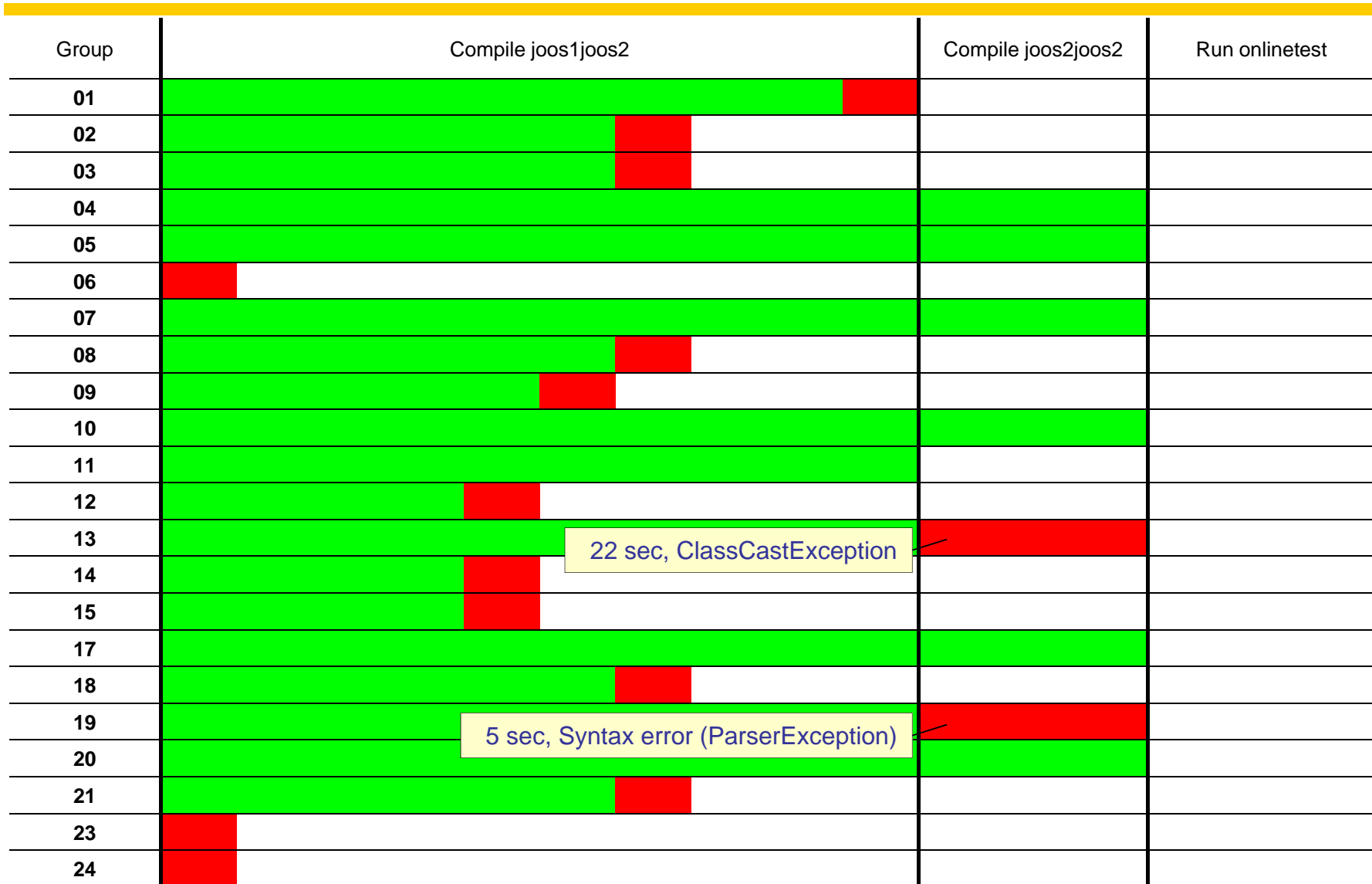
Ready to compile joos2joos2

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
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Compiling joos2joos2 with joos1joos2

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
01	Green bar with red end		
02	Green bar with red end		
03	Green bar with red end		
04	Green bar	Green bar	
05	Green bar	Green bar	
06	Red bar		
07	Green bar	Green bar	
08	Green bar with red end		
09	Green bar with red end		
10	Green bar	Green bar	
11	Green bar		
12	Green bar with red end		
13	Green bar	Red bar	
14	Green bar with red end		
15	Green bar with red end		
17	Green bar	Green bar	
18	Green bar with red end		
19	Green bar	Red bar	
20	Green bar	Green bar	
21	Green bar with red end		
23	Red bar		
24	Red bar		

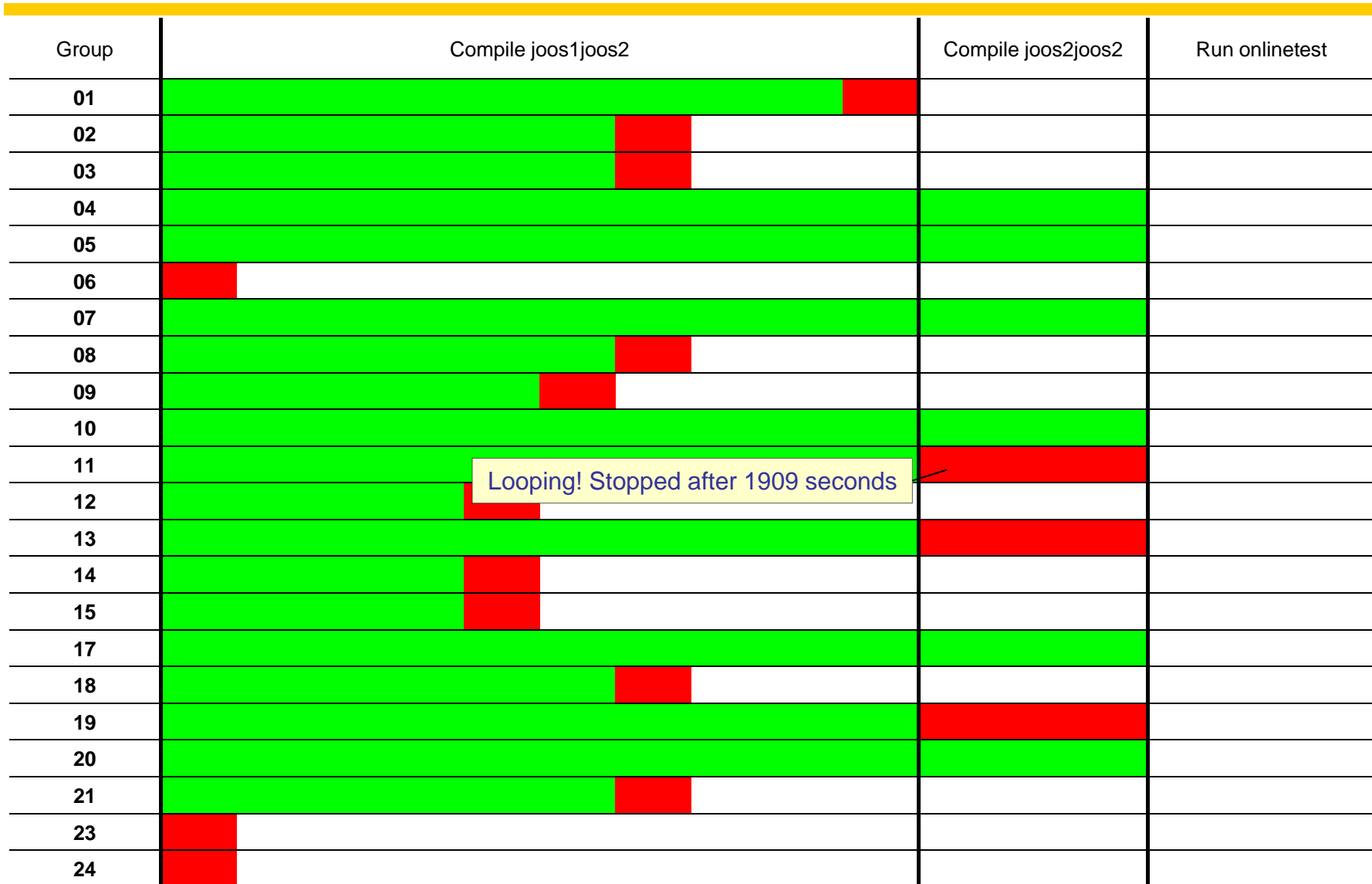
Compiling joos2joos2 with joos1joos2








































Compiling joos2joos2 with joos1joos2

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
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Compiling joos2joos2 with joos1joos2








































Onlinetest: Joos1 Positive

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
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Onlinetest: Joos1 Negative

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
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Onlinetest: Joos2

Group	Compile joos1joos2	Compile joos2joos2	Run onlinetest
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The Bootstrap Masters 2009

The Bootstrap Masters degree is awarded to

- **Group 04** (Claes, Jesper, Toke)
- **Group 05** (Jesper, Simon, Jonas)
- **Group 07** (Peter, Jørgen, Esben)
- **Group 10** (Asger, Kasper, Mads)
- **Group 17** (Casper, Clement, Jakob)
- **Group 20** (Mathias, Mirza, Jakob)

