

termCOMP '26

Florian Frohn

July 26, 2026

Overview

SRS Standard

SRS Relative

TRS Standard

TRS Relative

TRS Innermost

TRS Equational

TRS Conditional

TRS Context Sensitive

Integer Transition Systems

Logic Programming

C

Complexity ITS

Complexity C

PTRS

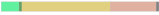
Report

SRS Standard

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	✓3. matchbox-tc26 YES:1304 NO:254 YES:11 NO:1 error:8 news:2 score:1559 time:1d 14:16:52 ✓00:39:36
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	✓5. AProVE26 YES:862 NO:120 YES:1 YES:1 error:12 news:3 score:983 time:3d 08:55:18 ✓00:09:09
	6. Mint YES:344 news:9 score:344 time:4d 16:09:18
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- MnM takes the crown!

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- **huge** number of new proofs

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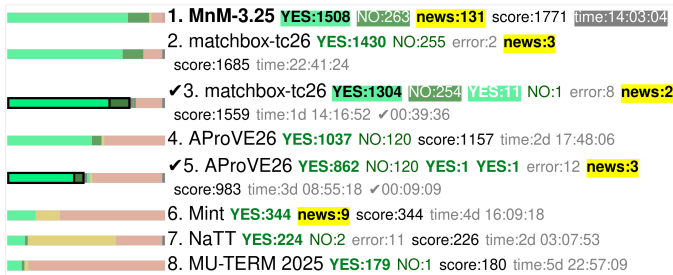
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- many failed certificates
 - Matchbox killed while printing?

SRS Relative

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		score:341	time:11:07:07	✓00:08:48				
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	5. AProVE26	YES:82	NO:5	togo:3	error:1	wrong:10	score:77	time:1d 06:43:57
	6. Mint	YES:68	togo:3	score:68	time:19:34:49			
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 - 1 **certified** termination proof (all tools)

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- AProVE certified outperforms AProVE

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	2. MnM-3.25	YES:328	NO:20	togo:3		news:1	score:348	time:09:38:26
	✓ 3. matchbox-tc26	YES:320	NO:21	YES:23	togo:3	error:2	news:2	score:341 time:11:07:07 ✓00:08:48
	✓ 4. AProVE26	YES:170	NO:4	togo:3			score:174	time:16:24:51 ✓00:00:32
	5. AProVE26	YES:82	NO:5	togo:3	error:1	wrong:10	score:77	time:1d 06:43:57
	6. Mint	YES:68		togo:3			score:68	time:19:34:49
	7. NaTT	YES:60	NO:1	togo:3			score:61	time:13:00:31

- Matchbox defends its title!
- newcomer: Mint
- 16 new non-looping non-terminating examples by Jörg Endrullis
 - 1 **certified** termination proof (all tools)
 - 1 faulty termination proof (AProVE)
 - 1 **certified** loop (4 tools)
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 - the others weren't solved
 - two reruns due to syntax errors in new examples
- not much progress
 - 4 new proofs (3x Matchbox, 1x MnM)
- AProVE certified outperforms AProVE
- many failed certificates

SRS Relative

	1. matchbox-tc26	YES:357	NO:21	togo:3	error:2	news:2	score:378	time:08:14:25
	2. MnM-3.25	YES:328	NO:20	togo:3		news:1	score:348	time:09:38:26
	✓ 3. matchbox-tc26	YES:320	NO:21	YES:23	togo:3	error:2	news:2	score:341 time:11:07:07 ✓00:08:48
	✓ 4. AProVE26	YES:170	NO:4	togo:3			score:174	time:16:24:51 ✓00:00:32
	5. AProVE26	YES:82	NO:5	togo:3	error:1	wrong:10	score:77	time:1d 06:43:57
	6. Mint	YES:68		togo:3			score:68	time:19:34:49
	7. NaTT	YES:60	NO:1	togo:3			score:61	time:13:00:31

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 - Matchbox killed while printing?

SRS Relative

	1. matchbox-tc26	YES:357	NO:21	togo:3	error:2	news:2	score:378	time:08:14:25
	2. MnM-3.25	YES:328	NO:20	togo:3	news:1	score:348	time:09:38:26	
	✓ 3. matchbox-tc26	YES:320	NO:21	YES:23	togo:3	error:2	news:2	
		score:341	time:11:07:07	✓ 00:08:48				
	✓ 4. AProVE26	YES:170	NO:4	togo:3	score:174	time:16:24:51	✓ 00:00:32	
	5. AProVE26	YES:82	NO:5	togo:3	error:1	wrong:10	score:77	time:1d 06:43:57
	6. Mint	YES:68	togo:3	score:68	time:19:34:49			
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- not much progress
 - 4 new proofs (3x Matchbox, 1x MnM)
- AProVE certified outperforms AProVE
- many failed certificates
 - Matchbox killed while printing?
- three examples got stuck (again)

TRS Standard

TRS Standard

	1. AProVE26 YES:1034 NO:279 score:1313 time:19:43:40
	✓2. AProVE26 YES:953 NO:271 error:1 score:1224 time:1d 01:12:14 ✓00:01:26
	3. NaTT YES:885 NO:170 error:3 score:1055 time:03:41:05
	4. MU-TERM 2025 YES:721 NO:136 score:857 time:2d 07:40:40
	5. Mint YES:794 NO:60 score:854 time:14:47:18
	6. NaTT++ YES:690 NO:60 score:750 time:01:37:45
	7. NTI YES:293 NO:293 news:5 wrong:140 score:446 time:2d 23:36:48

TRS Standard

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	1. AProVE26 YES:1034 NO:279 score:1313 time:19:43:40
	✓ 2. AProVE26 YES:953 NO:271 error:1 score:1224 time:1d 01:12:14 ✓ 00:01:26
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• AProVE!

TRS Standard

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	1. AProVE26 YES:1034 NO:279 score:1313 time:19:43:40
	✓ 2. AProVE26 YES:953 NO:271 error:1 score:1224 time:1d 01:12:14 ✓ 00:01:26
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- AProVE!
- newcomers: Mint & NaTT++

TRS Standard

TRS Standard

	1. AProVE26 YES:1034 NO:279 score:1313 time:19:43:40
	✓ 2. AProVE26 YES:953 NO:271 error:1 score:1224 time:1d 01:12:14 ✓ 00:01:26
	3. NaTT YES:885 NO:170 error:3 score:1055 time:03:41:05
	4. MU-TERM 2025 YES:721 NO:136 score:857 time:2d 07:40:40
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	6. NaTT++ YES:690 NO:60 score:750 time:01:37:45
	7. NTI YES:293 NO:293 news:5 wrong:140 score:446 time:2d 23:36:48

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- newcomers: Mint & NaTT++
- not much progress

TRS Standard

TRS Standard

	1. AProVE26 YES:1034 NO:279 score:1313 time:19:43:40
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- AProVE!
- newcomers: Mint & NaTT++
- not much progress
 - 5 new proofs by NTI

TRS Standard

TRS Standard

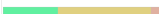
	1. AProVE26 YES:1034 NO:279 score:1313 time:19:43:40
	✓ 2. AProVE26 YES:953 NO:271 error:1 score:1224 time:1d 01:12:14 ✓ 00:01:26
	3. NaTT YES:885 NO:170 error:3 score:1055 time:03:41:05
	4. MU-TERM 2025 YES:721 NO:136 score:857 time:2d 07:40:40
	5. Mint YES:794 NO:60 score:854 time:14:47:18
	6. NaTT++ YES:690 NO:60 score:750 time:01:37:45
	7. NTI YES:293 NO:293 news:5 wrong:140 score:446 time:2d 23:36:48

- AProVE!
- newcomers: Mint & NaTT++
- not much progress
 - 5 new proofs by NTI
 - bug in NTI

TRS Relative

	1. AProVE26	YES:87	NO:16	score:103	time:03:10:07		
	2. NaTT	YES:62	NO:7	score:69	time:00:09:02		
	✓3. AProVE26	YES:45	NO:14	error:3	score:59	time:06:14:16	✓00:00:09
	4. Mint	YES:49		score:49	time:00:48:38		

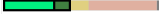
TRS Relative

	1. AProVE26 YES:87 NO:16 score:103 time:03:10:07
	2. NaTT YES:62 NO:7 score:69 time:00:09:02
	✓3. AProVE26
	YES:45 NO:14 error:3 score:59 time:06:14:16 ✓00:00:09
	4. Mint YES:49 score:49 time:00:48:38

- AProVE!

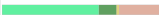
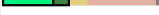
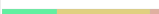
TRS Relative

TRS Relative

	1. AProVE26 YES:87 NO:16 score:103 time:03:10:07
	2. NaTT YES:62 NO:7 score:69 time:00:09:02
	✓ 3. AProVE26
	YES:45 NO:14 error:3 score:59 time:06:14:16 ✓00:00:09
	4. Mint YES:49 score:49 time:00:48:38

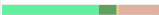
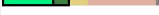
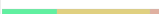
- AProVE!
- newcomer: Mint

TRS Relative

	1. AProVE26 YES:87 NO:16 score:103 time:03:10:07
	2. NaTT YES:62 NO:7 score:69 time:00:09:02
	✓ 3. AProVE26
	YES:45 NO:14 error:3 score:59 time:06:14:16 ✓00:00:09
	4. Mint YES:49 score:49 time:00:48:38

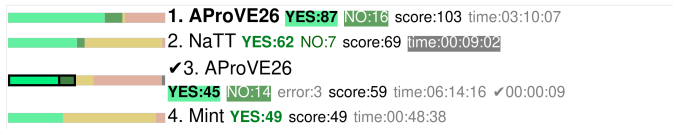
- AProVE!
- newcomer: Mint
- 14 new non-looping non-terminating examples by Jörg Endrullis

TRS Relative

	1. AProVE26 YES:87 NO:16 score:103 time:03:10:07
	2. NaTT YES:62 NO:7 score:69 time:00:09:02
	✓ 3. AProVE26
	YES:45 NO:14 error:3 score:59 time:06:14:16 ✓00:00:09
	4. Mint YES:49 score:49 time:00:48:38

- AProVE!
- newcomer: Mint
- 14 new non-looping non-terminating examples by Jörg Endrullis
 - **certified** loops were found for three of them!

TRS Relative



- AProVE!
- newcomer: Mint
- 14 new non-looping non-terminating examples by Jörg Endrullis
 - **certified** loops were found for three of them!
 - the other weren't solved

TRS Innermost

	1. AProVE26	YES:292	NO:7	score:299	time:06:07:46	
	✓2. AProVE26	YES:262	NO:7	score:269	time:08:16:53	✓00:00:19
	3. MU-TERM 2025	YES:213		score:213	time:13:17:01	

TRS Innermost

	1. AProVE26	YES:292	NO:7	score:299	time:06:07:46	
	✓2. AProVE26	YES:262	NO:7	score:269	time:08:16:53	✓00:00:19
	3. MU-TERM 2025	YES:213		score:213	time:13:17:01	

- AProVE!

TRS Innermost

	1. AProVE26 YES:292 NO:7 score:299 time:06:07:46
	✓ 2. AProVE26 YES:262 NO:7 score:269 time:08:16:53 ✓00:00:19
	3. MU-TERM 2025 YES:213 score:213 time:13:17:01

- AProVE!
- no progress

TRS Equational

TRS Equational

	1. AProVE26	YES:65	NO:2	score:67	time:00:13:22
	✓2. AProVE26	YES:65		score:65	time:00:15:25 ✓00:00:02
	3. MU-TERM 2025	YES:64		score:64	time:00:19:50

TRS Equational

TRS Equational

	1. AProVE26 YES:65 NO:2 score:67 time:00:13:22
	✓ 2. AProVE26 YES:65 score:65 time:00:15:25 ✓ 00:00:02
	3. MU-TERM 2025 YES:64 score:64 time:00:19:50

- AProVE!

TRS Equational

	1. AProVE26 YES:65 NO:2 score:67 time:00:13:22
	✓ 2. AProVE26 YES:65 score:65 time:00:15:25 ✓ 00:00:02
	3. MU-TERM 2025 YES:64 score:64 time:00:19:50

- AProVE!
- no progress

TRS Conditional – Operational Termination

TRS Conditional – Operational Termination

TRS Conditional - Operational Termination

	1. MU-TERM 2025	YES:88	NO:31	score:119	time:01:42:57
	2. AProVE26	YES:87		score:87	time:00:50:48

TRS Conditional – Operational Termination

TRS Conditional - Operational Termination

	1. MU-TERM 2025 YES:88 NO:31 score:119 time:01:42:57
	2. AProVE26 YES:87 score:87 time:00:50:48

- MU-TERM!

TRS Conditional – Operational Termination

TRS Conditional - Operational Termination

	1. MU-TERM 2025 YES:88 NO:31 score:119 time:01:42:57
	2. AProVE26 YES:87 score:87 time:00:50:48

- MU-TERM!
- no progress

TRS Context Sensitive

TRS Context Sensitive

	1. MU-TERM 2025	YES:97	NO:4	score:101	time:00:21:28
	2. AProVE26	YES:95	NO:4	news:1	score:99 time:00:33:57

TRS Context Sensitive

TRS Context Sensitive

	1. MU-TERM 2025	YES:97	NO:4	score:101	time:00:21:28
	2. AProVE26	YES:95	NO:4	news:1	score:99 time:00:33:57

- MU-TERM!

TRS Context Sensitive

TRS Context Sensitive

	1. MU-TERM 2025	YES:97	NO:4	score:101	time:00:21:28
	2. AProVE26	YES:95	NO:4	news:1	score:99 time:00:33:57

- MU-TERM!
- one new proof by AProVE...

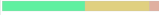
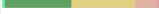
TRS Context Sensitive

TRS Context Sensitive

	1. MU-TERM 2025	YES:97	NO:4	score:101	time:00:21:28
	2. AProVE26	YES:95	NO:4	news:1	score:99 time:00:33:57

- MU-TERM!
- one new proof by AProVE...
 - ...in less than 60 seconds!

Integer Transition Systems **conflicting**

	1. T2 YES:613 NO:443 score:1056 time:05:44:22
	2. iRankFinder v1.3.2 YES:645 NO:410 score:1055 time:11:37:06
	3. VeryMax YES:630 NO:419 score:1049 time:09:15:13
	4. MuVal YES:566 NO:466 score:1032 time:17:34:10
	5. Golem 0.9.1 YES:309 NO:502 error:1 news:1 score:811 time:1d 01:59:28
	6. KoAT YES:644 news:1 score:644 time:08:11:12
	7. LoAT YES:2 NO:534 news:3 score:536 time:15:26:04

- T2 again!

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	3. VeryMax YES:630 NO:419 score:1049 time:09:15:13
	4. MuVal YES:566 NO:466 score:1032 time:17:34:10
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Integer Transition Systems

- T2 again!
- Sooo close...

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Integer Transition Systems

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- Sooo close...
 - T2 and iRankFinder tied before the **last** example

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 - T2 and iRankFinder tied before the **last** example
 - first 4 tools within 25 points

Integer Transition Systems

Integer Transition Systems **conflicting**

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	5. Golem 0.9.1 YES:309 NO:502 error:1 news:1 score:811 time:1d 01:59:28
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	7. LoAT YES:2 NO:534 news:3 score:536 time:15:26:04

- T2 again!
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 - YES only: KoAT loses to iRankFinder by 1 example

Integer Transition Systems

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	3. VeryMax YES:630 NO:419 score:1049 time:09:15:13
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	5. Golem 0.9.1 YES:309 NO:502 error:1 news:1 score:811 time:1d 01:59:28
	6. KoAT YES:644 news:1 score:644 time:08:11:12
	7. LoAT YES:2 NO:534 news:3 score:536 time:15:26:04

- T2 again!
- Sooo close...
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 - first 4 tools within 25 points
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- 5 new proofs

Integer Transition Systems

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	5. Golem 0.9.1 YES:309 NO:502 error:1 news:1 score:811 time:1d 01:59:28
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- 5 new proofs
 - LoAT (3), Golem (1), KoAT (1)

Integer Transition Systems

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 - LoAT (3), Golem (1), KoAT (1)
 - conflict between VeryMax and KoAT – could not be resolved

Integer Transition Systems

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- T2 again!
- Sooo close...
 - T2 and iRankFinder tied before the **last** example
 - first 4 tools within 25 points
 - YES only: KoAT loses to iRankFinder by 1 example
- 5 new proofs
 - LoAT (3), Golem (1), KoAT (1)
 - conflict between VeryMax and KoAT – could not be resolved
- huge improvements of individual tools

Integer Transition Systems

Integer Transition Systems **conflicting**

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	3. VeryMax YES:630 NO:419 score:1049 time:09:15:13
	4. MuVal YES:566 NO:466 score:1032 time:17:34:10
	5. Golem 0.9.1 YES:309 NO:502 error:1 news:1 score:811 time:1d 01:59:28
	6. KoAT YES:644 news:1 score:644 time:08:11:12
	7. LoAT YES:2 NO:534 news:3 score:536 time:15:26:04

- T2 again!
- Sooo close...
 - T2 and iRankFinder tied before the **last** example
 - first 4 tools within 25 points
 - YES only: KoAT loses to iRankFinder by 1 example
- 5 new proofs
 - LoAT (3), Golem (1), KoAT (1)
 - conflict between VeryMax and KoAT – could not be resolved
- huge improvements of individual tools
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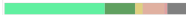
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Logic Programming

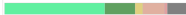
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C

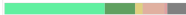
	1. AProVE (KoAT + LoAT) YES:514 NO:95 news:1 score:609 time:12:30:05
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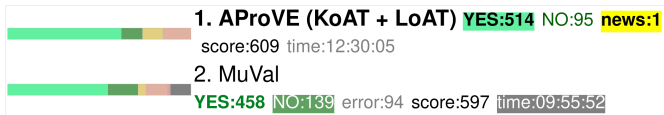
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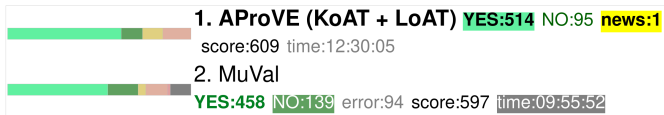
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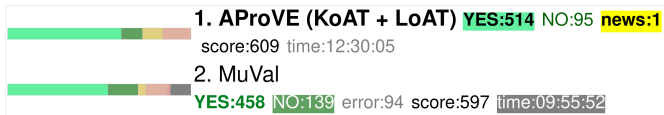
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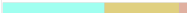
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- AProVE + KoAT + LoAT reclaims the win!
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- one new proof (AProVE)

Complexity: ITS **conflicting**

	1. KoAT & LoAT UP:549.50 LOW:633 news:70 score:1182.5 time:10:26:13
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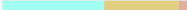
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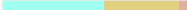
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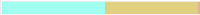
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Complexity C

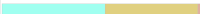
Complexity C

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	1. KoAT UP:375 news:13 score:375 time:02:16:20
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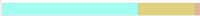
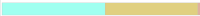
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PTRS Innermost



1. AProVE26 **SAST:49** Non-SAST:9 **AST:88** **news:4**

score:175 time:01:11:09

PTRS Standard



1. AProVE26 **SAST:38** Non-SAST:62 **AST:22** **news:36**

score:172 time:01:48:11

PTRS Innermost



- innermost and full rewriting

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- only demo categories
- many new examples by Jan-Christoph Kassing
- AProVE improved significantly
 - can now also *disprove* (S)AST

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