

JSON Scoreboard 2014

From ICPC-Contest Control Standard

[Jump to navigation](#)[Jump to search](#)

Contents

- 1 Scoreboard JSON File
 - 1.1 Background
 - 1.2 Format
 - 1.3 General Format for row objects
 - 1.3.1 Fields and examples for sequence, team and problem JSON members

Scoreboard JSON File

Background

Since 2012 a JSON version of the scoreboard has been provided using an ad-hoc format. This scoreboard is not yet officially supported. It will most likely be provided in 2014. The format may change. This page describes the current version.

Format

Each JSON output is created is an JSON array with zero or more JSON objects. Each object in the array corresponds to a scoreboard row. The output will be in a single long JSON string.

Sample JSON if no teams defined

```
[[]]
```

Each row object includes information about the team, the problems they have submitted on and scoring information. The rows are ordered by the teams' positions according to the ICPC WF scoring rules. This example is formatted in order to better show the example, the actual JSON does not need to include line breaks. The example is truncated and shows just the top two teams.

```
[ [ {"id": "61", "rank": 1, "solved": 9, "score": 1170, "name": "St. Petersburg State University of IT,  
Mechanics and Optics", "group": "Europe",  
  "A": {"a": 0, "p": 3, "s": "pend"},  
  "B": {"a": 1, "t": 18, "s": "solved"} },
```

```

|     "C":{"a":1,"t":79,"s":"solved"},
|     "D":{"a":2,"t":42,"s":"solved"},
|     "E":{"a":2,"t":165,"s":"solved"},
|     "F":{"a":2,"t":142,"s":"first"},
|     "G":{"a":1,"t":208,"s":"solved"},
|     "I":{"a":2,"t":125,"s":"solved"},
|     "K":{"a":1,"t":49,"s":"solved"},
|     "L":{"a":1,"t":262,"s":"solved"}},
|   {"id":"103","rank":2,"solved":8,"score":1176,"name":"University of Warsaw","group":"Europe",
|     "A":{"a":5,"p":1,"s":"pend"},
|     "B":{"a":1,"t":32,"s":"solved"},
|     "C":{"a":2,"t":60,"s":"solved"},
|     "D":{"a":1,"t":19,"s":"solved"},
|     "E":{"a":1,"t":187,"s":"solved"},
|     "F":{"a":1,"s":"tried"},
|     "G":{"a":3,"t":234,"s":"solved"},
|     "I":{"a":2,"t":147,"s":"solved"},
|     "K":{"a":5,"t":128,"s":"solved"},
|     "L":{"a":3,"t":169,"s":"solved"}},
|   ....
| ]

```

General Format for row objects

The format of a scoreboard row object is

```

{ "id": "<team_id>", "rank": <Rank>, "solved": <problems_solved>, "score": <team_score>, "name": "<University_
| name>", "group": "<Group_name>"
| (, "<Problem_letter>": {"a": <Attempts> (, "p": <Pending>)? (, "t": <Elapsed_time>)?, "s": "<Results_phase>"})*
| }

```

where (...) * implies zero or more occurrences and (...) ? implies zero or one occurrence.

Fields and examples for sequence, team and problem JSON members

Name	Key	Description	Example	Type
team_id	id	Team number	3	integer
Rank	rank	rank in contest	12	integer
problems_solved	solved	number problems solved	5	integer
team_score	score	team score / penalty	324	integer
University_name	name	University/team name	Oxford University	String
Group_name	group	Group/Region name	Europe	String
Problem_letter	(N/A)	letter for problem	D	upper case char [A-Z]
Attempts	a	number of judged attempts for problem (thus not those pending judgement)	3	Integer
Elapsed_time	t	time when solved	143	Integer
Pending	p	pending runs count	2	Integer
Results_phase	s	results/info about run	solved	String: "tried", "solved", "first", "pend"

The key "p" is only present if Result_phase is "pend" and the key "t" is only present if the Result_phase is "solved".

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