

# Fina Point Scoring

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## Overview

The FINA Point Scoring allows comparisons of results among different events. The FINA Point Scoring assigns point values to swimming performances, more points for world class performances typically 1000 or more and fewer points for slower performances.

Point values are assigned every four years after the Olympic Games. The charts have one set of points for Short Course and another for Long Course.

The scoring is named by the year of the Olympic Games, after which the base times were defined, e.g. "**FINA Point Scoring 2004**" after the Games of Athen 2004.

## Formula

The points are calculated using a cubic curve. With the swim time (**T**) and the base time (**B**) in seconds the points (**P**) are calculated with the following formula:

$$P = 1000 * ( B / T )^3$$

The exact formula is used to calculate points from times. Then all point values are rounded to the next integer number using normal rounding (932.499... -> 932, 932.50... -> 933).

If the needed time (**T**) for a certain number of points (**P**) should be calculated, the exact formula is used to calculate a first estimation. Then the time should be reduced by one hundredth of a second as long as the reverse calculation with the time still results in the original number of points.

## Base times for 1000 points

The base times are define for all common individual events and relays, separated for men / women and long course / short course.

The base times are recalculated every four years after the Olympic Games, based on the average of the Top Ten of the All Time World Rankings. In cases of doubt and for events with no accurate fundamentals, FINA defines the base times at their's own discretion.

The base times are published on the FINA website within one month after the Olympic Games.

## Tools

The following tools for the FINA Point Scoring are available on the FINA website:

- \* A standalone application, which allows to calculate points for single times and to printout tables with points and needed times for standard events.
- \* A DLL module, that can be integrated in any swim software for meet or team management and that allows to calculate points for swim times within the software.

The following table contains all base times for the different events. They are in a so called .ini file format, so that they can be easily used in a computer program. The section header contains the course (LC / SC) and the gender (Men / Women). The key name contains the distance and the stroke (FR: Free, BA: Backstroke, BR: Breaststroke, BU: Fly and IM: Medley).

### Base times for FINA Points 2004

#### [LC Men]

50\_FR= 21.88  
 100\_FR= 48.30  
 200\_FR= 1:45.94  
 400\_FR= 3:44.30  
 800\_FR= 7:48.51  
 1500\_FR= 14:48.88  
 50\_BA= 25.14  
 100\_BA= 53.93  
 200\_BA= 1:56.69  
 50\_BR= 27.51  
 100\_BR= 1:00.16  
 200\_BR= 2:10.24  
 50\_BU= 23.54  
 100\_BU= 51.73  
 200\_BU= 1:55.14  
 200\_IM= 1:58.75  
 400\_IM= 4:12.18  
 4\_50\_FR= 1:27.60  
 4\_100\_FR= 3:15.04  
 4\_200\_FR= 7:11.37  
 4\_50\_IM= 1:38.07  
 4\_100\_IM= 3:35.36

#### [LC Women]

50\_FR= 24.61  
 100\_FR= 54.01  
 200\_FR= 1:57.31  
 400\_FR= 4:05.64  
 800\_FR= 8:21.84  
 1500\_FR= 16:04.14  
 50\_BA= 28.50  
 100\_BA= 1:00.29  
 200\_BA= 2:08.40  
 50\_BR= 31.06  
 100\_BR= 1:07.02  
 200\_BR= 2:23.85  
 50\_BU= 26.23  
 100\_BU= 57.65  
 200\_BU= 2:06.61  
 200\_IM= 2:11.44  
 400\_IM= 4:35.82  
 4\_50\_FR= 1:39.68  
 4\_100\_FR= 3:38.69  
 4\_200\_FR= 7:58.00  
 4\_50\_IM= 1:51.33  
 4\_100\_IM= 4:01.96

#### [SC Men]

50\_FR= 21.28  
 100\_FR= 46.79  
 200\_FR= 1:43.28  
 400\_FR= 3:39.14  
 800\_FR= 7:39.12  
 1500\_FR= 14:32.41  
 50\_BA= 23.73  
 100\_BA= 51.14  
 200\_BA= 1:51.94  
 50\_BR= 26.71  
 100\_BR= 58.20  
 200\_BR= 2:06.24  
 50\_BU= 22.95  
 100\_BU= 50.54  
 200\_BU= 1:52.45  
 200\_IM= 1:55.21  
 400\_IM= 4:04.79  
 100\_IM= 53.31  
 4\_50\_FR= 1:25.69  
 4\_100\_FR= 3:10.79  
 4\_200\_FR= 7:03.37  
 4\_50\_IM= 1:35.21  
 4\_100\_IM= 3:29.07

#### [SC Women]

50\_FR= 24.19  
 100\_FR= 52.80  
 200\_FR= 1:55.02  
 400\_FR= 4:01.27  
 800\_FR= 8:16.49  
 1500\_FR= 15:56.32  
 50\_BA= 27.24  
 100\_BA= 58.28  
 200\_BA= 2:04.89  
 50\_BR= 30.27  
 100\_BR= 1:05.44  
 200\_BR= 2:20.32  
 50\_BU= 26.00  
 100\_BU= 57.15  
 200\_BU= 2:05.57  
 200\_IM= 2:08.80  
 400\_IM= 4:31.34  
 100\_IM= 1:00.20  
 4\_50\_FR= 1:38.61  
 4\_100\_FR= 3:36.36  
 4\_200\_FR= 7:51.24  
 4\_50\_IM= 1:49.42  
 4\_100\_IM= 3:57.80

## Revision History

15. Dec 2004 Base times for relays added  
20. Oct 2004 Created