Judging System

First Aid

for

ISU Judging System
Lower Class Events

Result of the ISU Global Seminar 2010

Frankfurt, 14.-17.07.2010

Section “ISU Judging System Lower Class Events”

Index

General remarks for competition setup and organization

The First Aid document was created during the ISU Judging System Lower Class Events workshop. It was part of the General ISU seminar Frankfurt in July 2010.

The seminar was held to introduce tools for implementing the ISU Judging System on levels lower than Novice.
It was not goal of the seminar to create a requirement guideline for lower classes.

References:
Rules: http://www.isu.org/
ISU rule book and ISU Official communications
ISU Judging System website: http://www.isujudgingsystem.com/
Download of the latest IJS software version (ISUCalcFS, ISUScoreFS)
Download of the ISUCalcFS user manual and ISUCalcFS.chm help file
Latest version of the ISU element table (elm1011.xml)
ISU Judging System support: support@isujudgingsystem.com

Note: The download section of isujudgingsystem.com requires a password. National federations can request the password via the support contact.

Please be aware:

Full equipment solution can be used as long as you don't insert new elements.
Otherwise: paper version is recommended (details see *Attachment 1 "Manual Calculation and Setup Database"*)

Officials (Technical Panel / Judges):

Number of Officials should be chosen according to availability. There is no minimum number of judges required.
The Officials should be divided into the Technical Panel and the Panel of Judges. Members of the Technical Panel should not act as Judges at the same time. One of the Judges can also act as Referee. If the result is established only out of Program Components no Technical Panel is required.

Scope:

- learn about the options to change parameters in ISUCalcFS
- learn how to customize verification rules
- learn about tools to distribute federation specific settings

☞ **Not in scope:** Definition of requirements for a certain age level

Two steps:

1) Definition of calculation parameters
2) Generation of default setup files for ISUCalcFS

Definition of calculation parameters:

Responsibility of the national federation (development group including referees, judges, coaches, etc., if exists)
The first part will explain which parameter can be changed and how it influences the calculation of the result.

Generation of default setup files for ISUCalcFS:

Responsibility of a computer specialist. The goal is to create a set of files which includes a default setup and can be distributed to the clubs in the national federation.

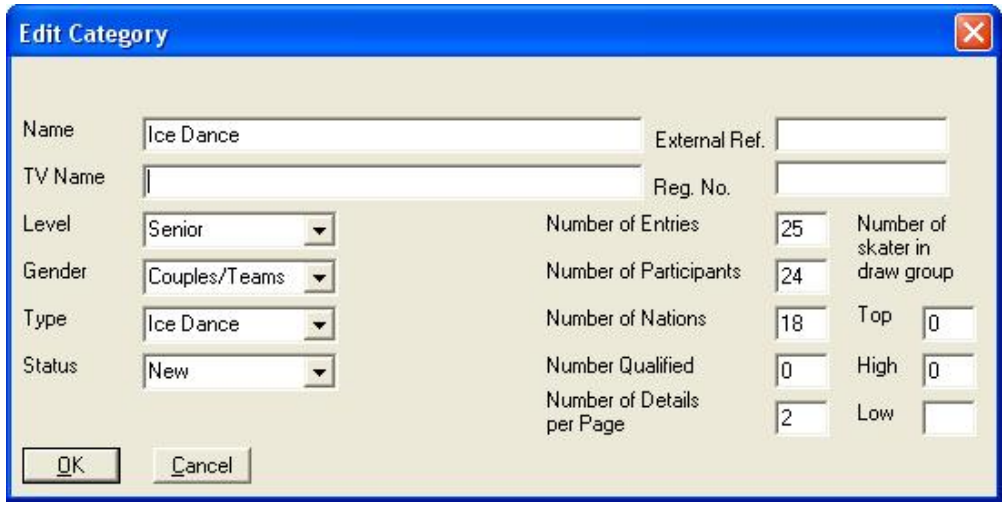
Calculation parameters

Three groups:

- Element list (SOV)
- Category and segment parameter
- Program verification

Customizing of calculation parameters

Category parameter



Name: description of the category. String with maximum of 50 characters.

External Reference, **Registration number**: reference IDs in external databases.

Category level: default values:

Description	Value
Senior	S
Junior	J
Novice	N
Pre-Novice	P
Other	O

The user can rename the default values and can add up to 20 levels, e.g. Cadets, Adult or age groups. These customized levels receive the values 1,…,9,a,…,k.

Example:

Description	Value
Age group 2003	1
Age group 2004	2
Age group 2005	3

Category gender: possible values:

Description	Value
Female	F
Male	M
Couples/Teams	T

Values cannot be customized.

Category type: possible values:

Description	Value
Singles	S
Pairs	P
Ice Dance	D
Synchronized	T

Values cannot be customized.

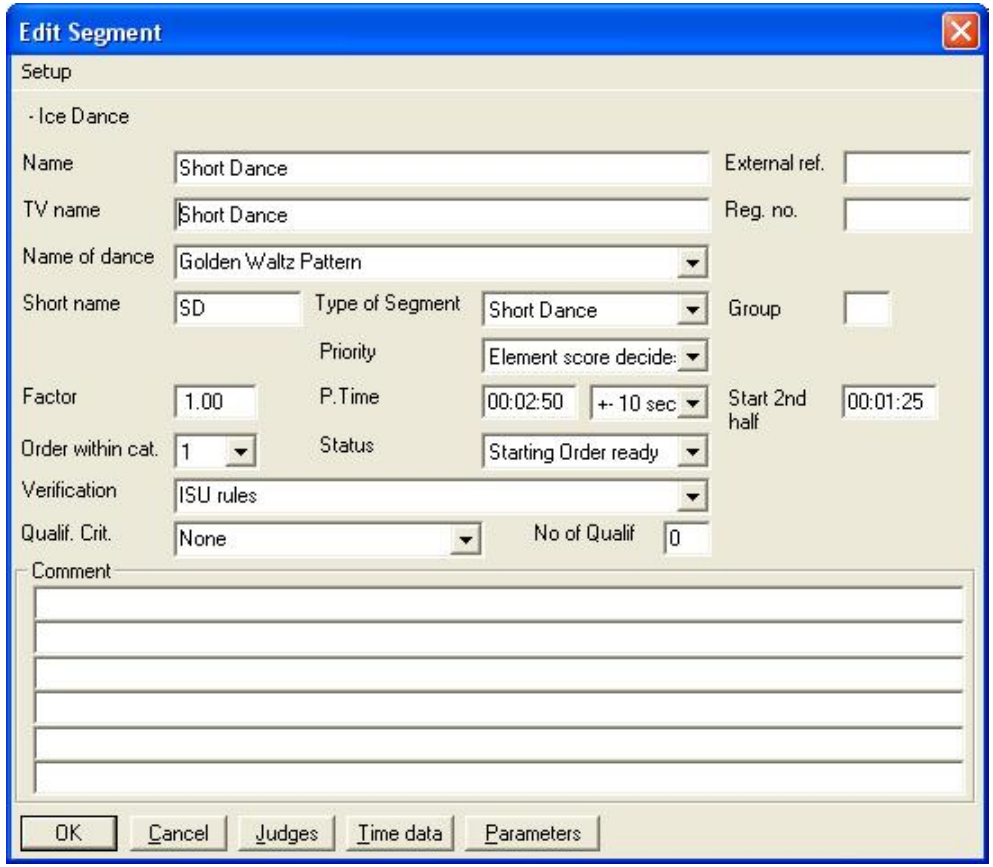
Category status: no functionality attached.

Number of entries, participants, nations: these values are calculated automatically.

Number of details per page: number of skater performances per page in the Judges Score report. If = 1 then only one skater per page, otherwise multiple skaters per page.

Number of skaters in draw groups: used for ISU championships. Parameters for setup of draw groups.

Segment parameter



Segment name: Description of the segment in the database. The name is used in the header of printed reports and Html results pages. String with maximum of 50 characters. No influence on result calculation.

External Reference, **Registration number**: reference IDs in external databases.

Name of Dance: Name of the pattern in Short Dance, otherwise empty. It is displayed on printed reports and on Html outputs.

Short name: Abbreviation of the segment name. It is displayed on printed reports and Html outputs.

Segment type: list of values:

Category type	Description	Value
Singles/Pairs/Synchro	Short Program	S
	Free Skating	F
	Qualifying Free Skating	Q
Ice Dance	Pattern Dance	C
	Short Dance	S
	Free Dance	F

Values can not be customized.

Priority
The rule defines the tie break criteria between two competitors with identical total segment score.
Example: 2008 Special Regulations and Technical Rules Figure Skating + Ice Dance
Rule 353 2) d) if two or more Skaters/Couples will have the same result, the Total Technical Score will break the tie in the Short Program and the Compulsory Dance(s). The Program Components Score will break the tie in the Free Skating, Original Dance and Free Dance. If these results are also equal, the Skaters/Couples concerned will be considered as tied.

Possible values:

Description	Value
Element score decides	1
Program components score decides	2
No decision	0

Values can not be customized.

Performance time: There are two parameters. The text field describes the allowed duration of a performance. The combo box describes the tolerance rule. If the tolerance is exceeded then the referee can give a time deduction. There is no automatic deduction by the computer system.
Format of time text field: hh:mm:ss, hh – hours, mm – minutes, ss - seconds

Possible values for tolerance rules:

Description	Value
Maximum	M
+/-10 seconds	T
Approximately	A

Values can not be customized.
The performance time value is displayed on the Protocol Head Page. It has no influence on the calculation.

Start 2nd half
In Singles and Pairs Free Skating some element groups are factorized, if these are performed in the second half of the program. This factor is applied by the computer system. The second half of the program starts is the second after half the value entered in the performance time field.
Reference: 2010 Special Regulations and Technical Rules Figure Skating + Ice Dance
Rule 353 1) h) iv) In the Free Skating of Single Skating the base values (but not the GOE's) for all jump elements started in the second half of the program will be multiplied by a special factor 1.1 in order to give credit for even distribution of difficulties in the program. In Pair Skating the base value (but not the GOE's) for all throw jumps, jump elements, lifts and twist lifts, started in the second half of the program will be multiplied by a special factor 1.1. … The second half commences in the middle of the required time without taking into account plus or minus 10 seconds allowance;

Segment factor
The segment factor gives a weight to the segment within the category. It is multiplied with the total segment score.
Note: The balance of short program and free skating is enforced by the reachable segment score, which depends on the number of elements and the program component factor. Therefore the segment factor for Short Program in ISU events is 1.0.
If an Ice Dance category is setup with two Pattern Dances, then the value should be changed to 0.5.
Format: numerical value with one decimal place
Default value: 1.0
The result of the multiplication is rounded to two decimal places.
Reference: 2010 Special Regulations and Technical Rules Figure Skating + Ice Dance
Rule 353 2) b) In Ice Dance, for events with two (2) Pattern Dances the Total Score for each dance will be multiplied by a factor of 0.5;

Order within category
Segment status: no functionality attached.

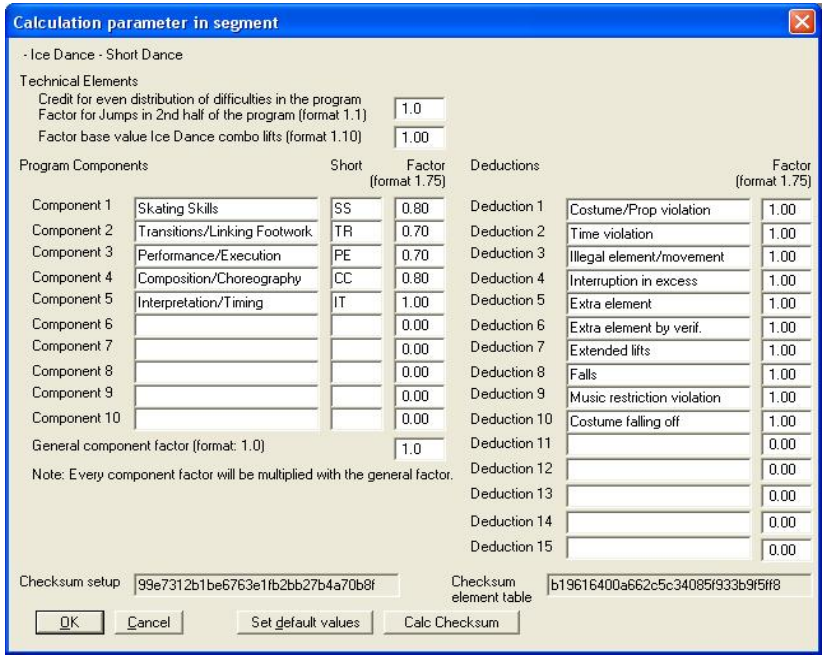
Verification: Choose the verification rule for the segment. By default the ISU verification is selected. The verification can be turned off. In this case the Technical Panel is responsible to enforce the verification of the elements in respect of requirements. Customized verification groups can be defined and are listed in the combo box.

Qualification criteria, **Number of Qualifier:** It can be defined, how many skaters qualify for the next segment in the category
Possible values for qualification criteria:

Description	Value
Best X	B
Best X + host country	C
None	A

Values can not be customized.

The number X is set in the Number of Qualifier field. The host country is set in the Nation field of the Edit Event dialog (Event data | Event dialog).
The qualifier flag is displayed in the Html output. It has no influence on the result calculation.



Credit for even distribution of difficulties in the program
Defines the factor to give credit for even distribution of difficulties in the program.
Default value for Single / Pairs free skating is 1.1, all other segments 1.0.
The result of the multiplication with the base value is rounded to two decimal places.
Is applied to the following element groups
Singles: jumps, jump combination, jump sequence
Pairs: side by side jumps, jump combination, jump sequence, throw jumps, lifts and twist lifts.
Reference: 2010 Special Regulations and Technical Rules Figure Skating + Ice Dance
Rule 353 1) h) iv) In the Free Skating of Single Skating the base values (but not the GOE's) for all jump elements started in the second half of the program will be multiplied by a special factor 1.1 in order to give credit for even distribution of difficulties in the program. In Pair Skating the base value (but not the GOE's) for all throw jumps, jump elements, lifts and twist lifts, started in the second half of the program will be multiplied by a special factor 1.1.

Factor base value for Ice Dance combination lifts
This parameter is only applied for element group lifts in Ice Dance.
Before season 2010/11 the base value of a combination lift was calculated as sum of the lift base values multiplied by 0.8. In this season the base value is the sum of the lift base values.
Default value is 1.0.
The result of the multiplication with the base value is rounded to two decimal places.
Reference: ISU communication Ice Dance season 2010/11
The Base Values of the first two executed Short Lifts in a Combination Lift will be added and one GOE will be applied to the entire Lift.

Inserting of new elements and values

The ISUCalcFS setup set includes a list of elements which is published annually in ISU Communication. This element set is saved in the database and the SOV can be modified according the definition of the national federation.

Scale of value

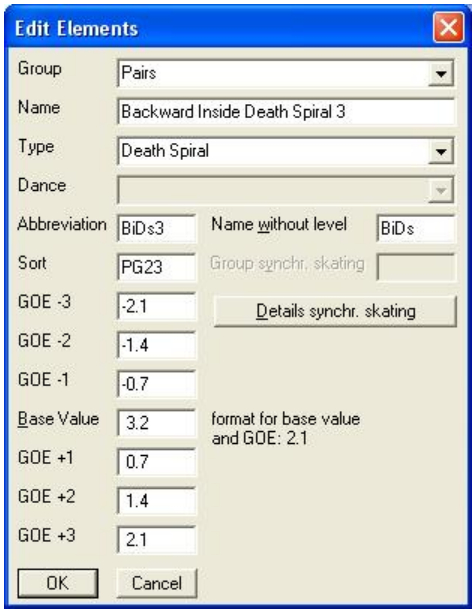
GOE -3, …, -1	Numerical, Format -m.n, e.g. -0.7
Base value	Numerical, Format m.n, e.g. 3.5
GOE 1, …, 3	Numerical, Format m.n, e.g. 2.1

Note: The value of GOE -3 should always be greater than the base value. The value of a performed element is the sum of the base value and the GOE of the panel of judges. This sum should not be negative.

Note: base values and GOE values with two decimal places are not allowed.

Note: Increase the base value of an element, to give a bonus for the execution of an element.

New elements can be created:



Define following parameters:

Element Group: defines the category and segment type where the element is valid.

Description	Value	Comment
Singles	S	Valid in Short Program and Free Skating
Pairs	P	Valid in Short Program and Free Skating
Ice Dance - Pattern Dance	C	Previous Compulsory Dance
Ice Dance - Short Dance	R	
Ice Dance – Free Dance	I	
Synchro – Short Program	U	
Synchro – Free Skating	T	

Element name: Description of the element. String with a maximum length of 50 characters. The element long name is used in the list of planned and executed elements in ISUCalcFS and the Planned Program Content – Checklist report.

Element Type: The element categorization is required for the verification of required elements and well-balanced program.

Element group	Description	Value
Singles	Jump	J
	Spin	O
	Step Sequence	S
	Spiral Sequence	U
	Move	B

Pairs	Side-by-Side Jump	J
	Throw Jump	V
	Side-by-Side Spin	O
	Pair Spin	Q
	Lift	M
	Twist Lift	N
	Step Sequence	S
	Spiral Sequence	U
	Death Spiral	A
	Move	B
Ice Dance – Short Dance Ice Dance – Free Dance	Lift	M
	Spin	O
	Step Sequence	S
	Twizzle	T
	Pattern	a
	Transition	-
Synchro – Short Program Synchro – Free Skating	Block	D
	Circle	E
	Line	F
	Wheel	W
	Intersection	I
	Moves in the field	G
	Movements in isolation	H
	Spin	O
	No Hold Step Sequence	S
	Pair element	P
	Spiral element	b

Abbreviation: The element abbreviation is used to enter the planned or performed element into ISUScoreFS or ISUCalcFS. It is used in the Judges Scores report or Technical panel and judges working sheet. String with a maximum length of 10 characters. Use alpha numerical and numerical characters. It should not include ‘ ’ (space), ‘+’ other special characters. It is listed on the Judges Scores report.

Note: If several levels are defined for one element, then every level (including the No level) is entered as separate entry into the database. There is no limitation in the number of element levels.
The level is added at the end of the element abbreviation in the standard ISU element notation.

Note: If a jump element is defined then the under-rotated and downgraded jump is entered as separate elements in the database.

Abbreviation without level: element abbreviation without level information. This value is shown in the element list of the ISUScoreFS Judge client.

Sort Order: defines the sort order in the elements list report (Output | Evaluation | GOE elements menu)

SOV: see description of Scale of value above.

Note: ISUCalcFS manages just one element list. I.e. if an element has different SOVs for category levels (e.g. cadet in difference to junior level), then two different databases must be used.

Inserting of verification rules

The ISU verification rules for Novice, Junior and Senior level are hardcoded in ISUCalcFS. The user can not modify these rules. Alternatively ISUCalcFS provides functionality to apply simple verification rules. This verification tool is described in this section.

Customized program verification

Verification group dialog

Create a verification group first. Select category and segment type. Save the data and re-open the form. Once the data are saved the Rules button is available.

Up to twenty (20) rules can be inserted in one verification group.

Select the verification group in the Edit segment dialog.

Verification rule dialog

Order of verification: Gives an order the rules are applied. Must be greater than zero (0).

Element type:

Select the element types the rule applies to. If the list is empty, the rule applies to all elements.

Element name:

Lists the elements the rule applies to. Up to twenty (20) elements can be inserted. Elements are separated by semicolon (;) without space e.g. “CSp;CCSp;FCSp;FCCSp;”.

If the field is empty, the rule applies to all elements of the selected element type(s).

Validate without level:

If this option is active, the level information is ignored during verification. For jumps the number of revolutions is ignored.

Example: if element name = ‘A’ and the Validate without level = Yes, then the rule is applied to all Axel type jumps.

Example: if element name = '3T' and the Validate without level = No, then the rule is applied to the triple toe loop only. The rule does not apply to other toe loop jumps as double or quadruple toe loop.

Rule level:

Applies to complete element only	
Applies to sub-elements only	
Applies to complete element and sub-elements	

Rule types:

Maximum number	Limits the number of performed elements
Required number	Number of required elements; must be defined together with a Maximum number rule.
Max. number of sub-elements	Limits the number of sub-elements in one element; e.g. max of 3 jumps in one jump combination
Illegal element	Marks an element as invalid, when performed

A rule is applied to a performed element if the element type match and if the performed element is part of the element list.
If there are more the one element type assigned in the rule, the performed element must match one of these.

Verification rule examples

Please note, the order number increases if more than one rule is entered.

Rule: Maximum number of elements in performance e.g. 8

Order	Element Type	Element Name	Validate without level	Rule level	Number	Rule type

1	empty	empty	No	Applies to complete element only	8	0	Maximum number

Note: Valid and invalid elements are counted.

Rule: Maximum number of jump elements in performance e.g. 5

Order	Element Type	Element Name	Validate without level	Rule level	Number		Rule type
1	Jump Jump combo Jump seq	empty	No	Applies to complete element only	5	0	Maximum number

A jump element can be a single jump, jump combination, or jump sequence.

Rule: Maximum number of jump elements on of which must be an Axel type jump

Order	Element Type	Element Name	Validate without level	Rule level	Number		Rule type
1	Jump Jump combo Jump seq	empty	No	Applies to complete element only	5	0	Maximum number
2	Jump	A	Yes	Applies to complete element and sub-elements	1	0	Required number

Rule: Maximum number of jump within a jump combination e.g. 3

Order	Element Type	Element Name	Validate without	Rule level	Number	Rule type

			level				
1	Jump combo	Empty	No	Applies to complete element only	3	0	Maximum number of sub-elements

Rule: Maximum number of jumps with 3 or 3 ½ rotations e.g. 4

Order	Element Type	Element Name	Validate without level	Rule level	Number		Rule type
1	Jump Jump combo Jump seq	3T; 3Lo; 3Lz; 3A; 3F; 3S	No	Applies to complete element and sub-elements	4	0	Maximum number

Rule: There must be a maximum of three (3) spins, one of which must be a spin combination, and one a flying spin

Order	Element Type	Element Name	Validate without level	Rule level	Number		Rule type
1	Spin	Empty	No	Applies to complete element only	3	0	Maximum number
2	Spin	CoSp; CCoSp	Yes	Applies to complete element only	1	0	Required number
3	Spin	FLSp; FUSp; FCSp; FSSp; FCoSp; FCLSp;	Yes	Applies to complete element only	1	0	Required number

		FCUSp; FCCSp; FCSSp; FCCoSp;					

Rule: There must be a maximum of three (3) spins of different nature

Order	Element Type	Element Name	Validate without level	Rule level	Number		Rule type
1	Spin	Empty	No	Applies to complete element only	3	0	Maximum number
2	Spin	CSp; FCSp; CCSp; FCCSp;	Yes	Applies to complete element only	1	0	Maximum number
3	Spin	LSp; FLSp; CLSp; FCLSp;	Yes	Applies to complete element only	1	0	Maximum number
4	Spin	USp; FUSp; CUSp; FCUSp;	Yes	Applies to complete element only	1	0	Maximum number
5	Spin	SSp; FSSp; CSSp; FCSSp;	Yes	Applies to complete element only	1	0	Maximum number
6	Spin	CoSp; FCoSp; CCoSp; FCCoSp;	Yes	Applies to complete element only	1	0	Maximum number

Variation of program components and deductions

This section describes options to modify program components and deductions.

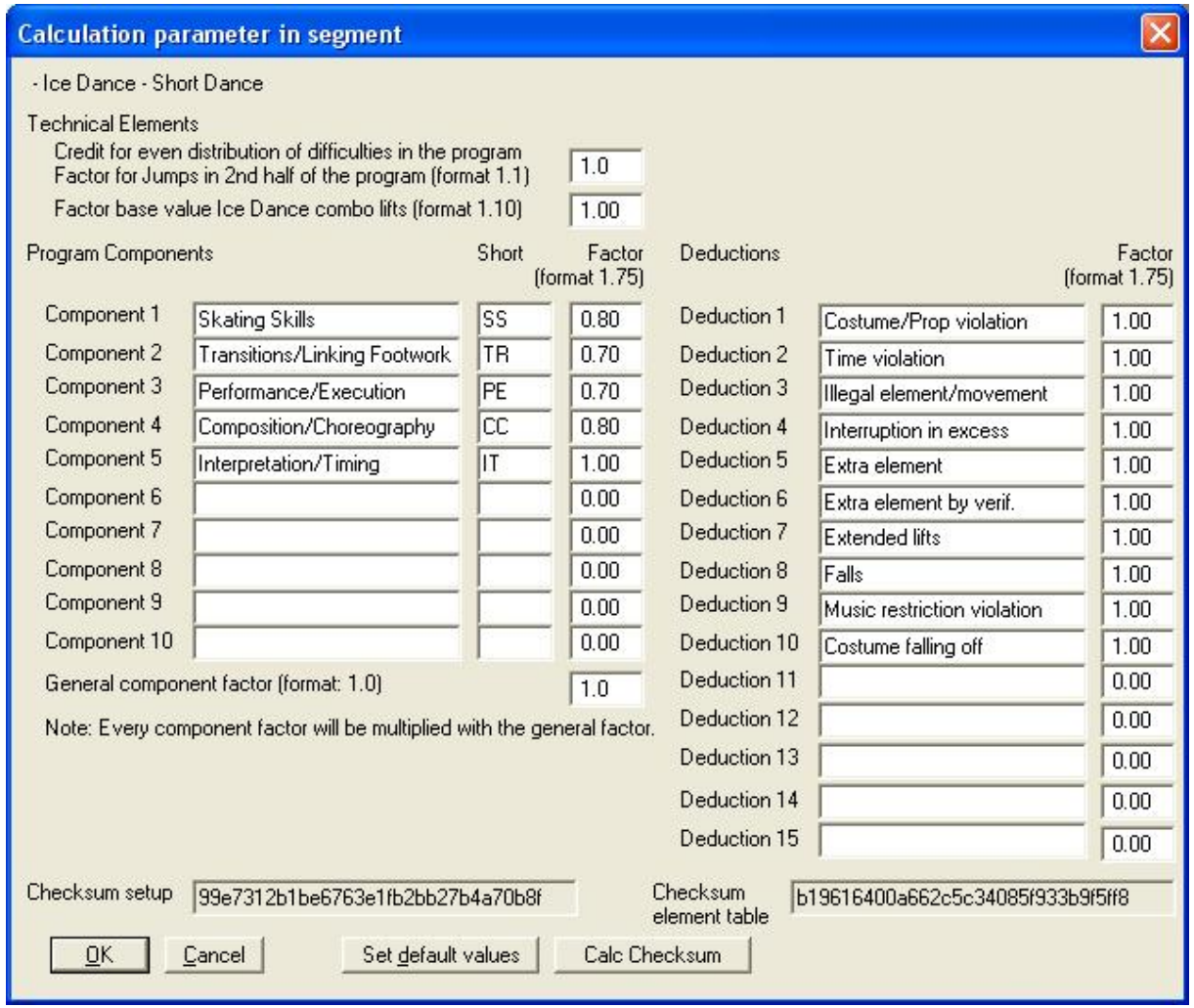
Program Component list
The list of components can be customized. Components can be added or removed. Every component got a factor. This component factor can be used give the components different weight.
General component factor is applied to all components. The result of the multiplication with the deduction value is rounded to two decimal places.

Note: The element score and program component score should be balanced. In ISU competition format both should be about 50% of the segment score. This principle is enforced by the general program factor.
The component names can be customized (e.g. translated). The name is listed in the Judges score report.

Note: If ISUScoreFS is used for score entry then number and default order of components should not be changed. Factors can be changed.

Deduction list
A factor is applied to every deduction.
Default value: 1.00
The result of the multiplication with the deduction value is rounded to two decimal places.
The deduction are entered and displayed un-factored in ISUCalcFS. The factor is applied during the calculation and the factored value is displayed in the Judges Score report.
The name of the deduction can be customized (e.g. translated).

Note: If ISUScoreFS is used for score entry then number and default order of deductions should not be changed. Factors can be changed.


Calculation parameter in segment
- Ice Dance - Short Dance
Technical Elements
Credit for even distribution of difficulties in the program
Factor for Jumps in 2nd half of the program (format 1.1)
1.0
Factor base value Ice Dance combo lifts (format 1.10)
1.00
Program Components
Short
Factor (format 1.75)
Component 1 Skating Skills SS 0.80
Component 2 Transitions/Linking Footwork TR 0.70
Component 3 Performance/Execution PE 0.70
Component 4 Composition/Choreography CC 0.80
Component 5 Interpretation/Timing IT 1.00
Component 6 0.00
Component 7 0.00
Component 8 0.00
Component 9 0.00
Component 10 0.00
General component factor (format: 1.0)
1.0
Note: Every component factor will be multiplied with the general factor.
Deductions
Factor (format 1.75)
Deduction 1 Costume/Prop violation 1.00
Deduction 2 Time violation 1.00
Deduction 3 Illegal element/movement 1.00
Deduction 4 Interruption in excess 1.00
Deduction 5 Extra element 1.00
Deduction 6 Extra element by verif. 1.00
Deduction 7 Extended lifts 1.00
Deduction 8 Falls 1.00
Deduction 9 Music restriction violation 1.00
Deduction 10 Costume falling off 1.00
Deduction 11 0.00
Deduction 12 0.00
Deduction 13 0.00
Deduction 14 0.00
Deduction 15 0.00
Checksum setup
99e7312b1be6763e1fb2bb27b4a70b8f
Checksum element table
b19616400a662c5c34085f933b9f5ff8
OK
Cancel
Set default values
Calc Checksum

Generation of setup xml-files, data import, data export

This section describes XML interfaces to distribute customized ISUCalcFS configurations to customers. The requirements should be defined by the federation. The corresponding XML files can be distributed to federation members (clubs) after implementation.

Implementation in ISU Judging system software

Tools

XML Notepad 2007
XML Notepad 2007 provides a simple intuitive user interface for browsing and editing XML documents.
Download:
http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=72d6aa49-787d-4118-ba5f-4f30fe913628

Category level

The category level is a property of the category.
It can be set in the Edit Category dialog.
The default segment parameter and the ISU program verification depend on the category level setting.
There are 5 default values: Senior, Junior, Novice, Pre-Novice, and Other.
The user can rename the default values and add up to 20 new levels.
The customization data are entered in the ISUCalcFS_Setup.xml. The file must be saved in the working directory of the ISUCalcFS application (default: c:\ISUCalcFS).

Structure of the xml file

```
<ISUCalcFS>
   <Category_Level_List>
      <Category_Level />
      …
   </Category_Level_List>
</ISUCalcFS>
```

Element	Child element	#	Attribute
ISUCalcFS	Category_Level_List	1	
Category_Level_List	Category_Level	1..24	Level_ID
			Level_Name
			Level_Short_Name

Attribute Category_Level	Explanation	Format / Value	Requiered
Level_ID	ID	C(1) S – Senior J – Junior N – Novice P – Pre-Novice O – Other 1 – 2 – 3 – 4 – 5 – 6 – 7 – 8 – 9 –	Y

		a – b – c – d – e – f – g – h – i – j – k –	
Level_Name	Name	C(30)	Y
Level_Short_Name	Short name	C(5)	N

The Level_ID attribute will except the listed values (S,J,N,P,O,1,2,3,4,5,6,7,8,9,a,b,c,d,e,f,g,h,I,j,k) only. Other values are ignored.
Use ID 1, …, 9, a up to k for additional levels.

Example:

```
<?xml version="1.0" encoding="UTF-8"?>
<ISUCalcFS>
   <Category_Level_List>
      <Category_Level Level_ID="1" Level_Name="Debs" Level_Short_Name="Deb"/>
      <Category_Level Level_ID="2" Level_Name="Springs" Level_Short_Name="Spr"/>
      <Category_Level Level_ID="3" Level_Name="Cubs" Level_Short_Name="Cub"/>
      <Category_Level Level_ID="4" Level_Name="Chicks" Level_Short_Name="Chi"/>
      <Category_Level Level_ID="5" Level_Name="Kids" Level_Short_Name="Kid"/>
   </Category_Level_List>
</ISUCalcFS>
```

Create a text file in the working directory of ISUCalcFS. Rename the file to ISUCalcFS_Setup.xml. Open the file in the text editor and copy the example into it. Adjust the values according to federation requirement.

Segment parameter

If a user creates a new segment, then ISUCalcFS sets default parameters (e.g. performance time, program components and factors) according ISU rules. These values are fix implemented (“hard coded”) in the software.
The user can change the values manually in the Edit segment dialog.
If a federation likes to use different parameters it can create an individual set of default parameters.
Note: It can also be used to translate the English names of program components or deductions into the home language.
The sets of default parameters are saved in Segment_Setup.xml . The xml file must be saved in the ISUCalcFS working directory (default: c:\ISUCalcFS).

Structure of the XML file

```
<ISUCalcFS>
   <Segment_Setup_List>
      <Segment_Setup>
         <Segment_Parameter />
         <Component_List>
            <Component />
            …
         </Component_List>
         <Deduction_List>
            <Deduction />
            …
         </Deduction_List>
      </Segment_Setup>
      …
   </Segment_Setup_List>
</ISUCalcFS>
```

Element	Child element	#	Attribute
ISUCalcFS	Segment_Setup_List	1	
Segment_Setup_List	Segment_Setup	1..N	Cat_Type
			Cat_Level

			Cat_Gender
			Scp_Type
Segment_Setup	Segment_Parameter	1	Scp_Name
			Scp_Short_Name
			Scp_Factor
			Mark_Prio
			General_Component_Factor
			Prf_Time
			Prf_Time_Finish
			Prf_Time_2ndHalf
			Factor_2ndHalf
			Factor_BaseValue2
			VerificationGroup
			QCrit
			QNumber
	Component_List	1	
	Deduction_List	1	
Component_List	Component	1..10	Com_Name
			Com_Short_Name
			Com_Factor
Deduction_List	Deduction	1..10	Ded_Name
			Ded_Factor

Attribute Segment_Setup_List	**Explanation**	**Format / Value**	**Req.**
Cat_Type	Category type D – Dance P – Pairs S – Singles T – Teams	C(1)	Y
Cat_Level	Category level S – Senior	C(1)	Y

	J – Junior N – Novice P – Pre-Novice O – Other 1 – Customized level 1 … 9 – Customized level 9 a – Customized level 10 … k – Customized level 20		
Cat_Gender	Category gender F – Female M – Male T –Team (incl. Pairs and Ice Dance)	C(1)	Y
Scp_Type	Segment type C – Pattern Dance F – Free Skating F – Free Dance O – Original Dance Q – Qualifying FS Q – Qualifying PD S – Short Program S – Short Dance	C(1)	Y

These attributes are used to identify the segment. Only if all 4 parameters match the following default parameter are loaded from the xml file.

Attribute Segment_Setup	**Explanation**	**Format / Value**	**Req.**
Scp_Name	Name of segment	C(40)	Y
Scp_Print_Name	Name of segment in printed reports	C(40)	N
Scp_Short_Name	Short name	C(3)	Y
Scp_Factor	Segment factor	N(x.xx)	Y

Mark_Prio	Priority for tie breaking in segment ranking. 1 – Technical Element Score breaks the tie 2 – Program Components Score breaks the tie 0 – no tie breaking	N(0,1,2)	Y
General_Component_Factor	Factor applies to all components	N(x.x)	Y
Prf_Time	Performance time in seconds	N	Y
Prf_Time_Finish	Performance finish M – maximum T – +/- 10 seconds A – approximately	C(1)	Y
Prf_Time_2ndHalf	Start of the 2nd half of performance in seconds	N	Y
Factor_2ndHalf	Factor for jumps in 2nd half of performance Default: Singles/Pairs Free Skating: 1.1 All other: 1.0	N(x.x)	Y
Factor_BaseValue2	Ice Dance: factor for base values of combination lifts Default: 1.00	N(x.xx)	N
VerificationGroup	Name of verification group	C(40)	N
QCrit	Qualification criteria A – None B – Best X	C(1)	N

	C – Best X + host country X is defined in QNumber		
QNumber	Number of qualifying athletes	N	N

Attribute Component_List	**Explanation**	**Format / Value**	**Req.**
Com_Name	Component name	C(40)	Y
Com_Short_Name	Short name	C(20)	
Com_Factor	Factor for component	N(x.xx)	Y

Note: The component score is multiplied by the general and the individual component factor. The components are imported in the listed order.

Attribute Deduction_List	**Explanation**	**Format / Value**	**Req.**
Ded_Name	Deduction name	C(40)	Y
Ded_Factor	Factor for deduction	N(x.xx)	Y

The deductions are imported in the listed order.

Example:

```
<?xml version="1.0" encoding="UTF-8"?>
<ISUCalcFS>
   <Segment_Setup_List>
      <Segment_Setup Cat_Type="S" Cat_Level="S" Cat_Gender="M" Scp_Type="S">
         <Segment_Parameter Scp_Name="Short Program" Scp_Short_Name="SP" Scp_Factor="1.0" Mark_Prio="1" General_Component_Factor="1.0"
Prf_Time="170" Prf_Time_Finish="M" Prf_Time_2ndHalf="85" Factor_2ndHalf="1.0" Factor_BaseValue2=”1.00” QCrit="A" />
         <Component_List>
            <Component Com_Name="Skating Skills" Com_Short_Name="SS" Com_Factor="1.00"/>
            <Component Com_Name="Transitions" Com_Short_Name="TR" Com_Factor="1.00"/>
            <Component Com_Name="Performance/Execution" Com_Short_Name="PE" Com_Factor="1.00"/>
            <Component Com_Name="Choreography" Com_Short_Name="CH" Com_Factor="1.00"/>
            <Component Com_Name="Interpretation" Com_Short_Name="IN" Com_Factor="1.00"/>
```

```
         </Component_List>
         <Deduction_List>
            <Deduction Ded_Name="Costume violation" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Time violation" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Music violation" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Illegal element" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Falls" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Interruption in excess" Ded_Factor="1.00"/>
         </Deduction_List>
      </Segment_Setup>
      <Segment_Setup Cat_Type="S" Cat_Level="S" Cat_Gender="M" Scp_Type="F">
         <Segment_Parameter Scp_Name="Free Skating" Scp_Short_Name="FS" Scp_Factor="1.0" Mark_Prio="2" General_Component_Factor="2.0" Prf_Time="270"
Prf_Time_Finish="T" Prf_Time_2ndHalf="135" Factor_2ndHalf="1.1" Factor_BaseValue2=”1.00” />
         <Component_List>
            <Component Com_Name="Skating Skills" Com_Short_Name="SS" Com_Factor="1.00"/>
            <Component Com_Name="Transitions" Com_Short_Name="TR" Com_Factor="1.00"/>
            <Component Com_Name="Performance/Execution" Com_Short_Name="PE" Com_Factor="1.00"/>
            <Component Com_Name="Choreography" Com_Short_Name="CH" Com_Factor="1.00"/>
            <Component Com_Name="Interpretation" Com_Short_Name="IN" Com_Factor="1.00"/>
         </Component_List>
         <Deduction_List>
            <Deduction Ded_Name="Costume violation" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Time violation" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Music violation" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Illegal element" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Falls" Ded_Factor="1.00"/>
            <Deduction Ded_Name="Interruption in excess" Ded_Factor="1.00"/>
         </Deduction_List>
      </Segment_Setup>
   </Segment_Setup_List>
</ISUCalcFS>
```

Element list

The list of elements is saved in the database. It can be edited in the Basic Data | Elements dialog.
The list can be exported to a xml file in the Special | Exchange with XML | Master Data | Element list menu. Default name of the file is elm.xml. The file name can be changed.
An element xml file can be imported in the Special | Exchange with XML | Import menu. The file can be selected in a standard Open File dialog.

Structure of the xml file

```
<ISUCalcFS>
   <Element_List>
      <Element >
         < ElmLevel_List>
            <ElmLevel />
            …
         </ElmLevel_List>
      </Element>
      …
   </Element_List>
</ISUCalcFS>
```

Element	Child element	#	Attribute
ISUCalcFS	Element_List	1	
Element_List	Element	1..N	Elm_ID
			Elm_Name
			Elm_SName
			Elm_NamWL
			Elm_Sort
			Elm_Group
			Elm_Type
			Elm_CalcGr
			Elm_Val1
			…
			Elm_Val7

			Elm_GrpSyn
Element	ElmLevel_List	1	
ElmLevel_List	ElmLevel	1..N	Ell_ID
			Ell_Elm_ID
			Ell_Detail

Example:

```
<ISUCalcFS>
   <Element_List>
      <Element ELM_ID="167" ELM_NAME="Spiral Sequence 1" ELM_SNAME="SpSq1" ELM_SNAMWL="SpSq" ELM_SORT="SC41" ELM_GROUP="S" ELM_TYPE="U" ELM_CALCGR="
" ELM_VAL1="-0.9" ELM_VAL2="-0.6" ELM_VAL3="-0.3" ELM_VAL4="1.8" ELM_VAL5="0.5" ELM_VAL6="1.0" ELM_VAL7="1.5" ELM_GRPSYN=" ">
         <ElmLevel_List/>
      </Element>
      <Element ELM_ID="95" ELM_NAME="No Hold Step Seq 3" ELM_SNAME="NHSS3" ELM_SNAMWL="No Hold Steps" ELM_SORT="UB03" ELM_GROUP="U" ELM_TYPE="S"
ELM_CALCGR=" " ELM_VAL1="-3.0" ELM_VAL2="-2.0" ELM_VAL3="-1.0" ELM_VAL4="2.3" ELM_VAL5="1.0" ELM_VAL6="2.0" ELM_VAL7="3.0" ELM_GRPSYN=" ">
         <ElmLevel_List>
            <ElmLevel ELL_ID="1065" ELL_ELM_ID="95" ELL_DETAIL="NHSS1+s2"/>
            <ElmLevel ELL_ID="1065" ELL_ELM_ID="95" ELL_DETAIL="NHSS2+s1"/>
            <ElmLevel ELL_ID="1065" ELL_ELM_ID="95" ELL_DETAIL="NHSS3"/>
            <ElmLevel ELL_ID="1065" ELL_ELM_ID="95" ELL_DETAIL="NHSS3+s"/>
         </ElmLevel_List>
      </Element>
      …
   </Element_List>
</ISUCalcFS>
```

Hint: If you like to add new elements to the existing ISU element list, start with an empty database. Enter all new elements in the Edit element dialog and export the list into a xml file. This xml file can be distributed and imported into every database.

Special Cases

This section describes ISUCalcFS functionality which are not related to customization but helps during competition operation.

Group Printout

Add the following [OUTPUT-MENU-CUSTOM] section to ISUCalcFS.ini. It adds two report groups to the Output menu.

[OUTPUT-MENU-CUSTOM]
OM14400=I,**Pre-defined after Short Program**
OM14401=O,Result,1,Printer
OM14402=O,ResultForSegment,1,Printer
OM14403=O,ResultForSegmentDetails,1,Printer
OM14404=O,JudgesScoresWithReferee,1,Printer
OM14405=O,DeductionProtocol,1,Printer
OM14406=O,JudgesScores,1,Printer
OM14407=O,ResultForSegment,1,PDF
OM14408=O,JudgesScores,1,PDF
OM14500=I,**Pre-defined after Free Skating**
OM14501=O,Result,1,Printer
OM14502=O,ResultForSegment,1,Printer
OM14503=O,ResultForSegmentDetails,1,Printer
OM14504=O,JudgesScoresWithReferee,1,Printer
OM14505=O,DeductionProtocol,1,Printer
OM14506=O,JudgesScores,1,Printer
OM14507=O,ResultForSegment,1,PDF
OM14508=O,JudgesScores,1,PDF

Note: The [OUTPUT-MENU] section is rewritten with every database structure update. The [OUTPUT-MENU-CUSTOM] will not be rewritten.

Copying of Categories

Use Special | Exchange with XML menus to create xml files. These xml files can be transferred between PCs and imported into different databases (Special | Exchange with XML | Import menu).

Simultaneous work on different segments

Setup a second ISUCalcFS desktop link to work simultaneously on two segments. Edit the properties of the link and add /standalone at the end of the target. “C:\ISUCalcFS\ISUCalcFS” /autostart.
If this program line parameter is used then no IP connections are established.

Two ISUCalcFS can be started and the same database selected.
Work on different segments (enter starting order or judges in a segment, while a different segment is live in competition) is possible. If the data of one and the same segment is edited in the two ISUCalcFS then one might overwrite the changes of the other.

HTML Online Results

Create a “html” folder in the database folder.
Use Special | Export to Html | Entire Event to create a full set of Html files of the event. The content of the Html folder can be uploaded to a webpage.

A page with online results is created when scores are calculated (1st Score). Activate this feature in ISUCalcFS.ini.
[General]
HtmlOResult=1

Setup a batch file to copy this file for webpage upload. Enter the batch file name into ISUCalcFS.ini
[General]
HtmlOCommand=online.cmd

See ISUCalcFS.chm for an example batch file.

(1) Single Skating

Jumps:

1T	Single Toeloop
1S	Single Salchow
1Lo	Single Loop
1F	Single Flip
1Lz	Single Lutz
1A	Single Axel
2T	Double Toeloop
2S	Double Salchow
2Lo	Double Loop
2F	Double Flip
2Lz	Double Lutz
2A	Double Axel
3T	Triple Toeloop
3S	Triple Salchow
3Lo	Triple Loop
3F	Triple Flip
3Lz	Triple Lutz
3A	Triple Axel
4T	Quad. Toeloop
4S	Quad. Salchow
4Lo	Quad. Loop
4F	Quad. Flip
4Lz	Quad. Lutz
4A	Quad. Axel

Spins:

USp	Upright Spin
LSp	Layback Spin
CSp	Camel Spin
SSp	Sit Spin
FUSp	Flying Upright Spin
FLSp	Flying Layback Spin
FCSp	Flying Camel Spin
FSSp	Flying Sit Spin
CUSp	Change Foot Upright Spin
CLSp	Change Foot Layback Spin
CCSp	Change Foot Camel Spin
CSSp	Change Foot Sit Spin
FCUSp	Flying Change Foot Upright Spin
FCLSp	Flying Change Foot Layback Spin
FCCSp	Flying Change Foot Camel Spin
FCSSp	Flying Change Foot Sit Spin
CoSp	Combination Spin
CCoSp	Change Foot Combination Spin
FCoSp	Flying Combination Spin
FCCoSp	Flying Change Foot Comb. Spin

Steps:

SlSt	Straight Line Step Sequence
CiSt	Circular Step Sequence
SeSt	Serpentine Step Sequence
SpSq	Spiral Sequence
ChSt	Choreo Step Sequence
ChSp	Choreo Spirals

(2) Pair Skating

Solo jumps: see above

Throw Jumps:

1TTh	Throw Single Toe Loop
1STh	Throw Single Salchow
1LoTh	Throw Single Loop
1FTh	Throw Single Flip
1LzTh	Throw Single Lutz
1ATh	Throw Single Axel
2TTh	Throw Double Toeloop
2STh	Throw Double Salchow
2LoTh	Throw Double Loop
2FTh	Throw Double Flip
2LzTh	Throw Double Lutz
2ATh	Throw Double Axel
3TTh	Throw Triple Toeloop
3STh	Throw Triple Salchow
3LoTh	Throw Triple Loop
3FTh	Throw Triple Flip
3LzTh	Throw Triple Lutz
3ATh	Throw Triple Axel
4TTh	Throw Quad. Toe Loop
4STh	Throw Quad. Salchow
4LoTh	Throw Quad. Loop
4FTh	Throw Quad. Flip
4LzTh	Throw Quad. Lutz

Twist Lifts:

1TTw	Single Toeloop Twist Lift
2TTw	Double Toeloop Twist Lift
3TTw	Triple Toeloop Twist Lift
4TTw	Quad. Toeloop Twist Lift
1FTw	Single Flip Twist Lift
2FTw	Double Flip Twist Lift
3FTw	Triple Flip Twist Lift
4FTw	Quad. Flip Twist Lift
1LzTw	Single Lutz Twist Lift
2LzTw	Double Lutz Twist Lift
3LzTw	Triple Lutz Twist Lift
4LzTw	Quad. Lutz Twist Lift
1ATw	Single Axel Twist Lift
2ATw	Double Axel Twist Lift
3ATw	Triple Axel Twist Lift
4ATw	Quad. Axel Twist Lift

Lifts:

1Li	Group 1 Lift (Armpit Hold Position)
2Li	Group 2 Lift (Waist Hold Position)
3Li	Group 3 Lift (Hand to Hip Position)
4Li	Group 4 Lift (Hand to Hand Position)
5ALi	Group 5 Axel Lasso Lift
5TLi	Group 5 Toe Lasso Lift
5SLi	Group 5 Step in Lasso Lift
5RLi	Group 5 Reverse Lasso Lift

Death Spirals:

FiDs	Forward Inside Death Spiral
BiDs	Backward Inside Death Spiral
FoDs	Forward Outside Death Spiral
BoDs	Backward Outside Death Spiral
PiF	Pivot Figure

Solo Spins: see above

Pair Spins:

PSp	Pair Spin
PCoSp	Pair Combination Spin

Steps: see above

(3) Ice Dancing

Pattern Dance Elements:

VW1S	Viennese Waltz 1st Sequence
VW2S	Viennese Waltz 2nd Sequence
GW1S	Golden Waltz 1st Section
GW2S	Golden Waltz 2nd Section

Steps:

MiSt	Midline Step Sequence
DiSt	Diagonal Step Sequence
NtMiSt	Not Touching Midline Step Seq.
CiSt	Circular Step Seq.
SeSt	Serpentine Step Seq.

Spins:

Sp	Spin
CoSp	Combination Spin
Sp + TRANS	Transitional Spin
CoSp + TRANS	Transitional Combination Spin

Lifts:

StaLi	Stationary Lift
SlLi	Straight Line Lift
CuLi	Curve Lift
RoLi	Rotational Lift
SeLi	Serpentine Lift
RRoLi	Reverse Rotational Lift
Li + TRANS	Transitional Lift

Twizzles:

STw	Set of Synchronized Twizzles
SqTw	Set of Sequential Twizzles

(4) Synchronized Skating

B	Block
BSS	Block Step Sequence
C	Circle
CSS	Circle Step Sequence
L	Line
W	Wheel
I	Intersection
NHSS	No Hold Step Sequence
SP	Spin
MF	Moves in the field
MI	Moves in isolation
PA	Pair Element
TRANS	Transition

s	steps
tr	travelling
cd	change of rotational direction
piv	pivoting
pi	point of intersection
cr	change of rotation
bm	modest body movement
fm	free skating moves
fe	free skating element
d	deduction

(5) Special Codes

+ COMBO	Combination
+ SEQ	Sequence
<	under-rotated
<<	downgraded
e	wrong edge / unclear edge
*	asterisk (not according to verification rules)

ISU Judging System

- Manual Calculation and Setup Database -

Presentation for

Data & Replay Operators Seminar
ISU Judging System Lower Class Events

Frankfurt 2010

Index:

ISU Judging System – Manual Calculation and Setup Database

1 Intention

Data and Replay Operators are often involved also in the organization and/or accounting of local competitions. Therefore this part of the seminar likes to present the needs, operation and process of the low-cost version of the ISU Judging System (Manual Calculation, called “paper version”).
For participants of the Seminar ”ISU Judging System Lower Class Events” we want to show the basic principles of the setup of a database using the official software ISUCalcFS to ensure a rather equal knowledge of all participants.

2 Basics ISU Judging System

2.1 Officials

Technical Panel:

Technical Specialist (TS):

- identifies and calls the elements (jumps, spins, steps), levels of difficulty, falls and illegal elements
- is strictly focused on the ice

Technical Specialist Assistant (TSA): *(not used for paper version)*

- writes down the called elements, levels, falls and illegal elements
- equal member in the decision making process after the performance

Technical Controller (TC):

- checks and confirms the input of the called elements, levels, falls and illegal elements
- is responsible for the program verification
- guides through the decision making process after the performance

Data Operator : *(not used for paper version)*

- inputs the called elements, levels, falls and illegal elements into the system
- handles the video replay after the performance

Replay Operator: *(not used for paper version)*

marks beginning and end of an element for the video replay

Cameraman: *(not used for paper version)*

tapes the complete program with a video camera

Calculation operator:

handles the calculation software that generates the results

Panel of judges:

Judge:

decides about the quality of the called elements, gives points for the program components and votes for deductions for music, costume violation

Referee:

same duties as judges plus deductions for time, music, costume violation, interruption of program

2.2 Separation Technical Elements – Grade of Execution

2.2.1 Technical Elements

The TS identifies according to the current ISU criteria

- **Jumps** (type and number of rotations, e.g. Double Flip),
- **Spins** (type and level of difficulty, e.g. Flying Sit Spin Level 2) and
- **Steps** (type and level of difficulty (except for Choreo Step, Choreo Spiral), e.g. Straight Line Step Sequence Level 1).

All these elements have **abbreviations** (e.g. 2F for Double Flip) and a **base value** (e.g. 1,8 for Double Flip).

2.2.2 Grade of Execution

For each element the judges give a grade of execution (GoE) with seven possibilities (+3, +2, +1, 0, -1, -2, -3). The GoE reduces or increases the base value with rates according to the **scale of value**.

e.g.

	+3	+2	+1	**base value**	-1	-2	-3
2F	0,9	0,6	0,3	**1,8**	-0,3	-0,6	-0,9

2F with a GoE of +1 counts 1,8 + 0,3 = **2,1** .

2.3 Program Components

In addition to the technical part the judges give points for program components. For Singles, Pairs and Synchronized Skating they are as follows: (for Ice Dance partly different names)

Skating Skills

Transitions

Performance / Execution

Choreography

Interpretation

The scale is in the range from 0,25 to 10,00 (in steps of 0,25).

2.4 Program Verification

The number of elements (jumps, spins, steps) which counting are limited and may vary in the different levels of skating categories (set by the ISU for Novice, Juniors, Seniors).
For a Short Program (Short Dance) there are **required elements**, in a Free Skating (Free Dance) the **well balanced program** is obligatory.
The comparison of the performed elements with the rules is called **Program Verification** and is the duty of the **Technical Controller (TC).** The calculation software is only helping the Technical Controller in making the final decision.

3 Manual Calculation

3.1 Types of "paper version"

The electronic marking and display system used during ISU-Events (Illustration 1) is often for smaller local or regional competitions not available, too expensive or due to space restrictions not possible to use. Therefore two ways of calculating as described below are possible.

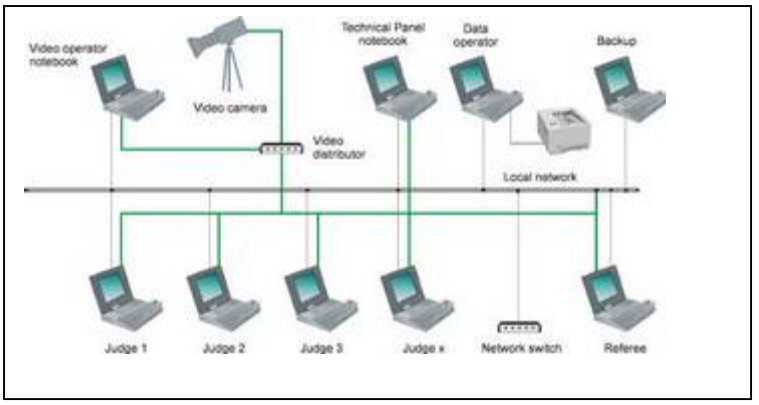


Illustration 1: High-tech solution

3.1.1 Low paper version

Illustration 2: low paper version

- Equipment needed:
  - Hardware: - PC / Notebook (USB keypad useful)
    - Printer (preferable laser printer)
  - Software: - ISUCalcFS (free download: www.isujudgingsystem.com)
- Human resources:
  - Technical Specialist (TS)
  - Technical Controller (TC)
  - 2 to 5 judges (one acts as referee ⇨ responsible for deductions, half-time if required)
  - Calculation operator (+ assistant)
- Set-up requirements:
  - Technical Panel has to be located in voice-distance to the judges
  - The position of the Calculation operator (+ assistant) should be nearby
  - Visual and/or acoustical disturbances should be avoided in this area
- Timing:
  - Calculate about 2:00 min. between two performances for confirmation of technical elements and judging

3.1.2 Extended paper version

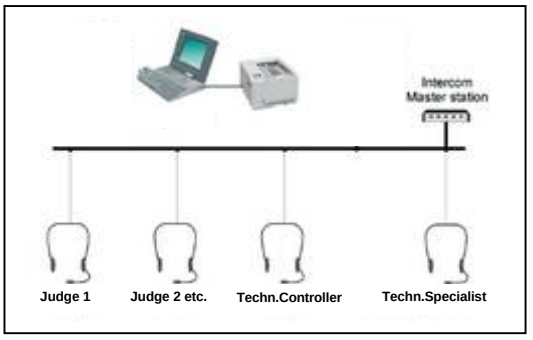


Illustration 3: extended paper version

Equipment needed: Hardware:
- PC / Notebook (USB keypad useful)
- Printer (preferable laser printer)
- **communication chain between technical panel and judges (headsets)**

Software:
- ISU Calc FS (free download: www.isujudgingsystem.com)

➢ Human resources:
- Technical Specialist (TS)
- Technical Controller (TC)
- 2 to 5 judges (one acts as referee ⇨ responsible for deductions, half-time if required)
- Calculation operator (+ assistant)

➢ Set-up requirements:
- The position of the Calculation operator (+ assistant) should be nearby
- Visual and/or acoustical disturbances should be avoided in this area

➢ Timing:
- Calculate about 2:00 min. between two performances for confirmation of technical elements and judging

3.2 Workflow

➢ During the first skater's performance there is now action for the Calculation operator.

➢ After the first skater's performance the Calculation operator assistant collects the element sheet of the Technical Panel and all judges' sheets.

➢ During the next skater's performance the manual entry is to be started:
Assistant is reading, Calculation operator is entering ⇨ 4 eyes are comparing

Input:
- ➢ out of element sheet of the TC:
  - elements and levels (very carefully!!!) possibly with "e" (wrong edge) and/or "<" (under-rotated) and/or "<<" (downgraded)
  - falls and illegal elements
- ➢ out of referee's judges sheet:
  - GOEs
  - program components
  - deductions (time, interruption of program, resume of votes for music, costume violation)
  - 2nd half (if required)
- ➢ out of judges sheets:
  - GOEs
  - program components
  - deductions (votes for music, costume violation)

💣 **Pay attention:**

- Remember the TS, TC and the judges to write readably! If nevertheless you can't read some notes ask the person concerning after the next performance!
- The input of data during the competition is mechanical and monotonous. Keep concentrated!
- All your entered records are part of the result and give information to the skater about his current standard of performance!
- Don't rush!

4 Setup Database

The ISU Judging System can be used for all disciplines (Singles, Pairs, Ice Dance and Synchronized Skating). The following arguments are based on Singles. The Setup for all other disciplines is very similar.

4.1 Download and Installation of ISUCalcFS

- **ISUCalcFS** can be downloaded from **www.isujudgingsystem.com** **(ISUCalcFSSetup_x.x.x)**. If you download the software for the first time, please download the complete version. All the following downloads can be done by update-versions.
- Download also **Crystal Reports Runtime (CrXi_Runtime_SPx)**.
- Un-zip the software, start the setup-process (setup.exe) and follow the instructions.
- Restart your computer.
- Create in your ISUCalcFS-folder a new folder for the competition you want to run (e.g. ClubCompetition2011). Start ISUCalcFS and choose the just now created folder. Start ISUCalcFS again.

💣 **Important:**

Don't forget the implementation of the current **list of elements** (elm1011.xml) as follows:

Special / Exchange with XML / Import / choose your ISUCalcFS-folder / master data 1011 / elm1011.xml

This process will take some moments.

With ***Basic Data / Elements*** you can check the successful implementation of the elements.

For international competitions please import also the **nations** (**nation.xml**) using above-mentioned procedure. For Synchronized Skating events **syselm1011.xml** is to be imported.

Please check the download page for possible updates before you start the event!

4.2 Collection of data

4.2.1 Collection of data BEFORE the competition day

4.2.1.1 After publication of announcement

At this point of time the competition together with some basic information can be created:

Event Data / Events / New

- Event
- List Name
- Place
- Date from… to…

- Rink name
- Short name
- Comp. Type
- Printing Language

Event Data / Categories / choose your event / New

- Name
- Level
- Gender
- Type

💣 This input causes some result-related settings! Pay attention!

Event Data / Segment / choose your event and category / New

- Choose type of segment (for Singles only Short Program and Free Skating are relevant)

💣 For Novice, Juniors and Seniors all settings are already implemented. For all the other categories the definition of further parameters is required:

- **P.Time** (and **Start 2nd half**, if needed)
- **Verification** ⇨ available only for Novice, Juniors and Seniors; for all the other categories choose "no verification" ⇨ responsibility of TC!
  (special verification rules can be entered using Special / Program Verification)
- **Button "Parameters"** ⇨ set for Novice, Juniors and Seniors, for all the other categories see your local / regional regulations
- **Button "Judges"** ⇨ input of referee, TC, TS and judges
  (via **Button "Import"** Judges from another segment can be imported; useful for many categories with the same panel of judges)
- **Button "Time Data"** ⇨ a detailed time schedule can be calculated

Event Data / Officials / choose Event / New

Create referees, judges, TS, TC (required information: title, given name, family name, nation / region).

4.2.1.2 After close of entry

Now all entered participants (with their planned programs) and the entered nations / regions / clubs can be created:

Event Data / Participants / choose event and category / New / Participant / New

- Given name
- Family name
- Nation (or region / club)

After confirmation via "OK": ***Edit / Elements SP and Elements FS respectively***

Choose category and enter the elements of the Planned Program Content Sheets (PPC) using the official abbreviations without levels and without Time-Code. With **"Save + check"** you can verify your input; possibly forgotten elements can be entered at the concerning spot via "ins" .

Printouts:

(1) Output / Entries / Entries (choose Event, Category, Segment) or ***Output / Entries / Entries All***

- ↳ to check the entries
- ↳ for the draw of the starting order

(2) Output / Entries / Planned Program Content Checklist (choose Event, Category, Segment)

- ↳ to check your input
- ↳ for TS / TSA / TC if they want to observe practice sessions

4.2.1.3 After draw of starting order

After the draw of starting order it can be entered using

Event Data / Starting Order / choose Event, Category, Segment

- Press **"enter"** after each starting number!

Say "Yes" to the question "Recalculate warm-up groups?" if you want to run the warm-up according to the current ISU-Rules. Otherwise the number of skaters in a warm-up-groups can be changed with Event Data / Warm-Up Groups.

Printout: (choose Event, Category, Segment)

Output / Starting Order / Starting Order

- to verify the starting order
- for publication, for the announcer etc.

4.2.1.4 After Judges draw

After the Judges draw the seating order can be entered using

Event Data / Segment / choose your event, category and segment / Edit / Judges

- One of the judges has to act as referee and therefore has to be input twice (Referee **and** Judge)!

Printouts: (choose always Event, Category, Segment)

(1) Output / Judges / Judges *(Output / Judges / Judges For Segment is only required if the panel of judges is different for the segments)*

(2) Output / Judges Sheets / Referee Sheet

(3) Output / Judges Sheets / Judges Sheets All Judges

(4) Output / Judges Sheets / Technical Specialist Sheet

(5) Output / Judges Sheets / Technical Controller Sheet

- Consider huge consumption of paper and toner!!! TIME!!!

4.2.2 Collection of data DURING the competition day

4.2.2.1 Withdrawals of competitors

Event Data / Participants / choose Event und Category / choose the Participant

Press **button "Edit"** and change the status to "withdrawn" ⇨ on the result list the participant shows up as "withdrawn".

4.2.2.2 Input of elements

After the first skater's performance, the discussion process about his elements / levels and the judging process the calculation operator's assistant collects the element sheet of the Technical Panel and all judges' sheets.

Run Competition / Manual Data Entry (choose Event, Category, Segment, Participant)

Button "Elements": Input the elements according to the element sheet of the Technical Panel.
To simplify this process the planned elements can be entered using the button **"Insert Planned Elm."**. Compare these elements with the actually shown elements.
Check the correct spelling via **"Save + Check"**.

- **Don't forget:**
  - Levels for spins and steps (except for Choreo Step, Choreo Spiral), "F" for flying spins
  - Addition "SEQ" for jump sequences (e.g. 1A+2F+SEQ)
  - "<" for under-rotated jumps (e.g. 2A<)
  - "<<" for downgraded jumps (e.g. 3T<<)
  - "e" for wrong edge in the box on the left side of the time code
  - possible deductions for falls, illegal elements (TC-sheet), time violation etc. (Referee sheet)
  - if required: activate the box of the first element of the second half (☑ in the column "2nd Half") in Free Skating for Juniors and Seniors (according to the referee's judges sheet)

Press **"OK"** and you will come back to the previous screen; in categories with available verification press **button "Verify"** ⇨ all elements not according to the verification rules get an asterisk (*) and therefore don't count in the calculation process).

4.2.2.3 Input of judges data

Button "Jdg Data": Input all GOEs, program components and votes for deductions according to the judges' sheets.

- Don't forget to sort the judges' sheets according to the seating order before the input!

- Advice:
  - use an USB keypad to accelerate the input
  - use of points for the program components is not necessary ("25" becomes automatically 2,5, "22" becomes automatically 2,25 etc.)

Press **"OK"** and go back to the previous screen; press **button "1st Score"** ⇨ the software calculates the Total Segment Score and the current place of the skater (shown in the window below).

With **button "Next"** you can switch to the next participant continuing the input.

The input-process of one skater should be finished within the skating time of the following participant. The final result is consequently ready about 5 minutes after the last skater's performance.

Close the competition using the **button "End"**.

Printouts: (choose always Event, Category, Segment)

(1) Output / Result / Result

- for publication, for the announcer (Final Result should be signed by the Referee and the TC)

(2) Output / Result / Judges Scores

- handout to the Referee for the Panel of Judges
- for the protocol

Further printouts are possible (see menu "Output"), but not required.

4.2.3 Activity AFTER the competition

4.2.3.1 Creation of the protocol

The **printed protocol** should contain at least the following printouts:

- Cover (customized)
- Output / Protocol / Protocol Head Page (for all categories)
- Output / Protocol / Judge for Protocol (for all categories)
- Output / Result / Result (for all categories)
- Output / Result / Judges Scores (for all categories)

For a **Protocol** you can use the html-data (as illustrated below) or pdf-files of the above mentioned printouts.

4.2.3.2 Creation of HTML-Data

The menu-function ***Special / Export to HTML / Entire Event*** creates automated html-files. The file index.htm has leading function.

To publish also the Judges Scores, add the new line

ListPdf = 1

into the menu ***Special / Edit Ini-File*** after the line "Show Nation = 1" and create the html-files once more. Of course the Judges Scores of all categories must have been created in pdf-format before and copied into the html-folder.

- Don't forget to adjust in the ini-file the links of your individual competition, internet presence and contact person.

4.2.3.3 Archiving of data

To archive the data of the whole competition it is highly recommended to save the complete competition-folder on an external data carrier.
If you want to run other competitions with a similar structure of participants, you can transfer participants, nations and planned program data via copying the files **pct.dbf**, **pct.cdx, nat.dbf, nat.cdx, pel.dbf** and **pel.cdx** of the first competition into the folder of the new competition.

General:

The collection of data for a one-day-club-competition takes a lot of time!
Start in time and avoid entering to many objects shortly before the competition!

5 Further sources of information

- www.isu.org and www.isujudgingsystem.com
- Manual of ISUCalcFS (ISUCalcFSUsersManual.pdf ⇨ see folder ISUCalcFS)
- Help-function of ISUCalcFS

☺ ☺ ☺ Good luck!!! ☺ ☺ ☺