



**O**ned  
**S**tandtogether  
**E**lectronic  
**R**econers

Orbewrit

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Reichstandortsgemeinschaft – Rsg

Reichsforschungsgemeinschaft für Rechenwissenschaft und -lehre – Rfg-r

British Forsee Fellowship for Recon- and Telllore

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Left under the Mean Need Leave.

# Inhold

<b>I</b>	<b>Grasp</b>	<b>3</b>
<b>1</b>	<b>Main Hold</b>	<b>5</b>
	Tellingstrings . . . . .	5
	8-String . . . . .	5
	16-String . . . . .	5
	32-String . . . . .	5
	64-String . . . . .	5
	128-String . . . . .	5
	256-String . . . . .	6
	Onwrits . . . . .	6
	True Onwrit . . . . .	6
	Craft Onwrit . . . . .	6
	1st Ring Shape . . . . .	6
	2nd Ring Shape . . . . .	6
<b>2</b>	<b>Onelings</b>	<b>7</b>
	True Onwrit . . . . .	7
	Overdrag . . . . .	7
	Read . . . . .	7
	Write . . . . .	7
	Grasp Timelayout . . . . .	7
	Craft Onwrit . . . . .	7
	Frame Field . . . . .	7
	Root Field . . . . .	7
	2nd Ring Frame Gate . . . . .	8
	1st Ring Frame Field . . . . .	8
	1st Ring Frame Gate . . . . .	9
	Runup . . . . .	9
	Frame Field Walc . . . . .	9
	nth Ring Frame Grasp . . . . .	9
<b>II</b>	<b>Underbreacing</b>	<b>11</b>
<b>3</b>	<b>Onbuilds</b>	<b>13</b>
	Sinc . . . . .	13
	Gate . . . . .	13
	Dragin . . . . .	13
	Well . . . . .	13
<b>4</b>	<b>Runup</b>	<b>15</b>
<b>III</b>	<b>Framing</b>	<b>17</b>
<b>5</b>	<b>Drive</b>	<b>19</b>
	Bid Loop . . . . .	19
	Falls . . . . .	19

<b>6 Reconing Onelings</b>	<b>21</b>
Near Hold . . . . .	21
0-15 – Onputs . . . . .	21
BT – Bid Teacher . . . . .	21
SD – Stand Dragin . . . . .	22
Onputs . . . . .	22
Fast Bystrice Tales . . . . .	22
U/Z1 . . . . .	22
U/Z2 . . . . .	22
U/Z4 . . . . .	22
Floating Bystrice Tales . . . . .	22
X4 . . . . .	22
X8 . . . . .	22
X16 . . . . .	23
X32 . . . . .	23
Bids . . . . .	23
Steer bid . . . . .	23
SCI – Scip . . . . .	24
JMP – Jump . . . . .	24
Stir Bid . . . . .	24
STR – Stir . . . . .	24
USS – Unsplit Stir . . . . .	25
BRS – Brooc Swich . . . . .	25
Telling Bid . . . . .	26
LSH – Left Shift . . . . .	26
RNS – Right Naught Shift . . . . .	26
RFS – Right Sign Shift . . . . .	27
THR – Thraw . . . . .	27
AND – Throughcut . . . . .	27
OR – Foronening . . . . .	27
NOT – Not . . . . .	27
SSW – Sign Swap . . . . .	27
Recon Bid . . . . .	28
GIV – Togive . . . . .	28
TAC – Undershed . . . . .	29
FLD – Forfolding . . . . .	29
CUT – Fordeal . . . . .	29
<b>7 Gangway Onelings</b>	<b>31</b>
Near Hold . . . . .	31
BT – Bid Teacher . . . . .	31
UGT – Underbreacing Gate Teacher . . . . .	31
UDT – Underbreacing Dragin Teacher . . . . .	31
SD – Stand Dragin . . . . .	31
Bids . . . . .	32
Steer Bid . . . . .	32
Overdrag Bid . . . . .	32
Read . . . . .	33
Write . . . . .	33
Drive . . . . .	33
Broocs . . . . .	33
Falls . . . . .	33

# Infare

The OSER is a layout for standtogethers which has as end to eath the reconing and trade of onputs. An OSER standtogether is made up of a **main hold**, one or more **reconing onelings** and naught or more **gangway onelings**.

In the OSER, reconings and trades are bewrit through **broocs**. When a brooc is run, three steps happen:

- grasp;
- underbreac; and
- framing.

## Grasp

In a grasp, an *onput* is overdragged between a oneling and the main hold.

## Underbreacing

In an underbreacing, a oneling maces a reconing oneling run a new brooc.

## Framing

In framing, a reconing oneling runs a brooc.



# **Part I**

## **Grasp**





# Cutup 1

## Main Hold

The main hold is made of *cells*.

### Tellingstrings

The cells hold **tellingstrings**. In a tellingstring, the tellings are tallied from 1 and are worth either 0 or 1. A string which is made of  $n$  tellings is called an  **$n$ -string**.

Each cell in the main hold holds an only 8-string. To hold a string which is longer than an 8-string, it is cut into 8-strings and the 8-strings are held in following cells.

#### 8-String

1	8
1	

#### 16-String

1	8	9	16
1	2		

#### 32-String

1	8 9	16 17	24 25	32
1	2	3	4	

#### 64-String

1	8 9	16 17	24 25	32
1	2	3	4	
33	40 41	48 49	56 57	64
5	6	7	8	

#### 128-String

1	8 9	16 17	24 25	32
1	2	3	4	
33	40 41	48 49	56 57	64
5	6	7	8	
65	72 73	80 81	88 89	96
9	10	11	12	
97	104 105	112 113	120 121	128
13	14	15	16	

**256-String**

1	8 9	16 17	24 25	32
1	2	3	4	
33	40 41	48 49	56 57	64
5	6	7	8	
65	72 73	80 81	88 89	96
9	10	11	12	
97	104 105	112 113	120 121	128
13	14	15	16	
129	136 137	144 145	152 153	160
17	18	19	20	
161	168 169	176 177	184 185	192
21	22	23	24	
193	200 201	208 209	216 217	224
25	26	27	28	
225	232 233	240 241	248 249	256
29	30	31	32	

**Onwrits**

Each cell is marced out by a whole tale called an **onwrit**. A telllingstring which is bigger than an 8-string is marced out by the onwrit of its first 8-string.

Each onwrit is a **true onwrit** or a **craft onwrit**.

**True Onwrit**

A true onwrit marcs out an only cell in the main hold. The first cell is marced by 0, and following onwrits marc out following cells.

**Craft Onwrit**

A craft onwrit has two shapes.

**1st Ring Shape**

1	10 11	20 21	32
R	1-T	O	

R Root tale

1-T 1st ring cey tale

O Offset

**2nd Ring Shape**

1	10 11	32
R	O	

R Root tale

O Offset

## Cutup 2

# Onelings

A oneling grasps the main hold when a tellingstring is overdragged between this oneling and marced out cells.

1. The oneling puts out the true onwrit which marcs out the string's first cell in the main hold.
2. The tellingstring is overdragged between the oneling and the marced out cells in the main hold.

## True Onwrit

When a tellingstring which is in the main hold is marced, all of its 8-strings are also marced out.

## Overdrag

The grasp is either a **read** or a **write**, hinging on the overdrag's way.

### Read

The grasp is a read when the string is sent from the oneling to the main hold.

### Write

The grasp is a write when the string is sent from the main hold to the oneling.

## Grasp Timelayout

For every oneling and for every main hold cell, a read from the cell by the oneling will overdrag the worth overdragged by the last write to that same cell by that same oneling.

## Craft Onwrit

A craft onwrit is overset into a true onwrit.

## Frame Field

The **frame field** holds the onputs for oversetting.

### Root Field

A root field holds 2nd ring frame bewrits, 2nd ring frame ceys or 1st ring frame field bewrits.

**2nd Ring Frame Bewrit**

1	10	11	26	27	28	29	30	31	32												
T	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	E	S	W	R	F	0

T Frame Teacher

E Wended

S Swapped

W Write Leave

R Read Leave

F Frame Leave

**2nd Ring Frame Cey**

1	28	29	30	31	32
T	W	R	F	1	

T Gate Teacher

W Write Leave

R Read Leave

F Frame Leave

**1st Ring Frame Field Bewrit**

1	20	21	32										
T		1 0 0 0 0 0 0 0 0 0 0 0 0 0											

T Field Teacher

**2nd Ring Frame Gate**

A 2nd ring frame gate is taught to by a 2nd ring frame cey.

1	10	11	26	27	28	29	32															
T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	E	S	0	0	0	0

T Frame Teacher

E Wended

S Swapped

**1st Ring Frame Field**

A 1st ring frame field holds 1st ring frame bewrits or 1st ring frame ceys.

**1st Ring Frame Bewrit**

1																				20	21											26	27	28	29	30	31	32
T																				1		0	0	0	0	0	E	S	W	R	F	0						

T Frame teacher

E Wended

S Swapped

W Write leave

R Read leave

F Frame leave





## **Part II**

# **Underbreacing**





# Cutup 3

# Onbuilds

In an underbreacing, outputs are traded between onelings.

## Sinc

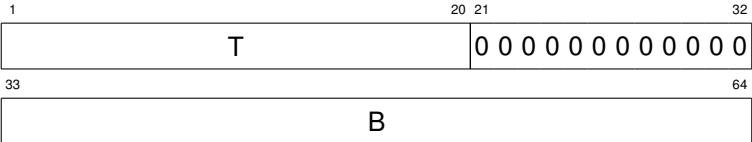
A sinc is a reconing oneling.

## Gate

An undebreacing gate is a cell in the main hold which is bound to a sinc.

## Dragin

An underbreacing dragin holds a craft onwrit to a bid and a teacher to the root field with which the onwrit must be overset.



T Root field teacher

B Bid craft onwrit

## Well

A well is a oneling which starts an underbreacing.



## Cutup 4

## Runup

An underbreacing happens when the well writes an underbreacing dragin to the underbreacing gate of the sinc. The sinc must start the bid loop with the bid which the bid craft onwrit teaches.



## **Part III**

# **Framing**



# Cutup 5

## Drive

In the OSER, reconing onelings follow a fast drive.

### Bid Loop

A reconing oneling follows the *bid loop*.

1. The oneling reads a bid.
2. If the bid is not crown, then the fall **AEA** happens.
3. The oneling frames all grasps which must happen before the bid.
4. The oneling frames the bid.
5. The oneling frames all grasps which must happen after the bid.
6. The oneling starts again at (1).

### Falls

When a fall happens, the oneling runs a **trap**.

A trap is a sunder brooc which gets the oneling's stand at the time of the fall as input.





## Cutup 6

# Reconing Onelings

In the OSER, the reconing onelings are built to a bespocen layout.

### Near Hold

The reconing onelings have a **near hold** which does not hingg on the main hold.

### 0-15 – Onputs

1		32
	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	

### BT – Bid Teacher

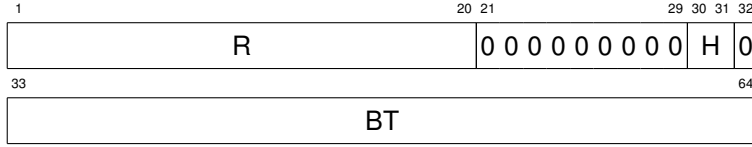
1		31 32
	T	S

T Teacher

S Stand

0 Running

1 Stopped

**SD – Stand Dragin**

R Root field teacher

H Hingg

BT Bid Teacher

**Onputs**

An onput can be either a fast bystrice tale or a floating bystrice tale.

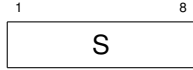
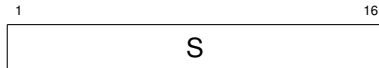
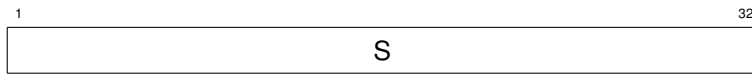
**Fast Bystrice Tales**

Let  $Z_U(S, M)$  be the tale bewritten by a tellingstring  $S$  with lowest might  $M$  in an unsigned meaning.

$$Z_U(S, M) = 2^M \sum_{i=1}^{|S|} 2^{|S|-i} S_i$$

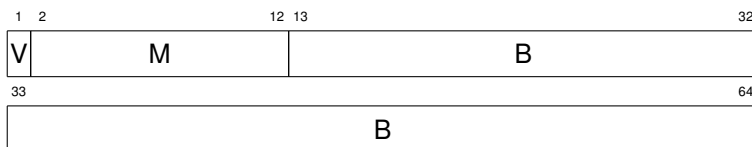
Let  $Z_Z(S, M)$  be the tale bewritten by a tellingstring  $S$  with lowest might  $M$  in a signed meaning.

$$Z_Z(S, M) = 2^M \left( -2^{|S|-1} S_1 + \sum_{i=2}^{|S|} 2^{|S|-i} S_i \right)$$

**U/Z1****U/Z2****U/Z4****Floating Bystrice Tales**

Let  $X(V, M, B)$  be the tale bewritten by a sign telling  $V$ , a might tellingstring  $M$  and a cut tellingstring  $B$ .

$$X(V, M, B) = (-1)^V 2^{Z_U(M, 0) - 2^{|M|-1}} Z_U(B, -1 - |B|)$$

**X4****X8**





– *A* is given to the near hold cell *Q* after the bid.

1	8	9	12	13	16	17	18	20	21	32		
1	0	1	1	0	0	0	0	Z	Q	Ä	G	A

In this shape:

- if the Ä-telling is 0, then the sinc is the main hold cell which the tale of *A* and the near hold cell *Z* marcs;  
otherwise:
  - *A* is given to the near hold cell *Z* before the bid;
  - the sinc is the main hold cell which the near hold cell *Z* marcs;
- the well is the near hold cell *Q*.

### Near Hold Shape

1							8	9			12	13			16
1	1	1	1	0	0	0	0		Z					Q	

In this shape, the sinc and well are the near hold cells *Z* and *Q*.

### USS – Unsplit Stir

This bid's run hinges on its shape.

This bid has two shapes.

1	8 9							12 13	16 17 18			20 21		32
0	1	1	1	0	0	0	1	Z	Q	0	G	A		

In this shape:

- the sinc is the near hold cell *Z*;
- the well is the main hold cell which the tale of *A* and the near hold cell *Q* marcs.

1	8	9	12	13	16	17	18	20	21	32		
1	0	1	1	0	0	0	1	Z	Q	0	G	A

In this shape:

- the sinc is the main hold cell which the tale of *A* and the near hold cell *Z* marcs;
- the well is the near hold cell *Q*.

Sunderly, this bid will not run if a write to the sinc has happened after the last **USS** thereto.

### BRS – Brooc Swich

This bid's run hinges on its shape.

This bid has two shapes.

1	8	9	12	13	16	17	32			
0	1	1	1	0	0	1	0	R	Q	A

In this shape:

- the stand dragin is put in a main hold ord whose onwrit is in the near hold cell *R*;
- a new stand dragin is loaded from the main hold cell whose onwrit is the togive of *A* and the near hold cell *Q*.

1							8	9				12	13			16
1	1	1	1	0	0	1	0		R					Q		

In this shape:

- the stand dragin is put in a main hold ord whose onwrit is in the near hold cell *R*;
- a new stand dragin is loaded from the main hold cell whose onwrit is in the near hold cell *Q*.



1	4	5	8	9	32
* * *	0	0	0	1	* *
1	4	5	8	9	16
* * *	0	0	0	1	* * * * * * * *

**RFS – Right Sign Shift**

After this bid, the sinc is shifted to the right by the tally of tellings given by the well. The leftmost tellings are set to the sinc's first telling before the bid.

1	4	5	8	9	32
* * *	0	0	1	0	* *
1	4	5	8	9	16
* * *	0	0	1	0	* * * * * * * *

**THR – Thraw**

After this bid, the sinc is thrawn to the right by the tally of tellings given by the well.

1	4	5	8	9	32
* * *	0	0	1	1	* *
1	4	5	8	9	16
* * *	0	0	1	1	* * * * * * * *

**AND – Throughcut**

After this bid, each of the sinc's tellings will be set to the throughcut of the matching tellings of the sinc and the well.

1	4	5	8	9	32
* * *	0	1	0	0	* *
1	4	5	8	9	16
* * *	0	1	0	0	* * * * * * * *

**OR – Foronening**

After this bid, each of the sinc's tellings will be set to the foronening of the matching tellings of the sinc and the well.

1	4	5	8	9	32
* * *	0	1	0	1	* *
1	4	5	8	9	16
* * *	0	1	0	1	* * * * * * * *

**NOT – Not**

After this bid, each of the sinc's tellings will be set to the swapped worth of the matching tellings of the well.

1	4	5	8	9	32
* * *	0	1	1	0	* *
1	4	5	8	9	16
* * *	0	1	1	0	* * * * * * * *

**SSW – Sign Swap**

After this bid, the sinc will be set to the wrixle of the well.

In the standing shape, the well is naught-filled.

1	4	5	8	9	32
* * * *	0	1	1	1	* * * * * * * * * * * * * * * * * *
1	4	5	8	9	16
* * * *	0	1	1	1	* * * * * * *

## Recon Bid

A recon bid bewrites a reconing.

All recon bids recon over fast bystrice tales.

Each recon bid has four shapes.

### Fast shape

1	4	5	8	9	12	13	32
0	0	1	0	* * * *	Z		W

In this shape:

- the sinc is the near hold cell *Z*;
- the well is *W*.

### Main Hold Shape

1	4	5	8	9	12	13	16	17	18	20	21	32
0	1	1	0	* * * *	Z		Q	Ä	G		A	

In this shape:

- the sinc is the near hold cell *Z*;
- if the Ä-telling is 0, then the well is the main hold cell which the tale of *A* and the near hold cell *Q* marcs;  
otherwise:
  - the well is the main hold cell which the near hold cell *Q* marcs;
  - *A* is given to the near hold cell *Q* after the bid.

1	4	5	8	9	12	13	16	17	18	20	21	32
1	0	1	0	* * * *	Z		Q	Ä	G		A	

In this shape:

- if the Ä-telling is 0, then the sinc is the main hold cell which the tale of *A* and the near hold cell *Z* marcs;  
otherwise:
  - *A* is given to the near hold cell *Z* before the bid;
  - the sinc is the main hold cell which the near hold cell *Z* marcs;
- the well is the near hold cell *Q*.

### Near Hold Shape

1	4	5	8	9	12	13	16
1	1	1	0	* * * *	Z		Q

In this shape, the sinc and well are the near hold cells *Z* and *Q*.

### GIV – Togive

After this bid, the well is given to the sinc.

In the standing shape, the well is sign-filled.

1	4	5	8	9	32
* * * *	1	0	0	0	* * * * * * * * * * * * * * * * * *
1	4	5	8	9	16
* * * *	1	0	0	0	* * * * * * *



**TAC – Undershed**

After this bid, the well is tacen from the sinc.

In the standing shape, the well is sign-filled.

1	4	5	8	9																	32										
* * * *				1 0 0 1				* *																							
1	4	5	8	9																	16										
* * * *				1 0 0 1				* * * * * * * *																							

**FLD – Forfolding**

After this bid, the well is folded by the sinc.

In the standing shape, the well is sign-filled.

1	4	5	8	9																	32										
* * * *				1 0 1 0				* *																							
1	4	5	8	9																	16										
* * * *				1 0 1 0				* * * * * * * *																							

**CUT – Fordeal**

After this bid, the well is cut by the sinc.

In the standing shape, the well is sign-filled.

1	4	5	8	9	32
* * * * 1 0 1 1 *					
1	4	5	8	9	16
* * * * 1 0 1 1 * * * * * * *					



# Cutup 7

## Gangway Onelings

The gangway onelings each output overdrags to and from the main hold. Each gangway oneling is made up of a *Gerät* and a *frame oneling*. Here will be bewritten the frame oneling's layout.

### Near Hold

#### BT – Bid Teacher

1		30	31	32
	T	0	S	

T Teacher

S Stand

0 Running

1 Stopped

#### UGT – Underbreacing Gate Teacher

1		32
	T	

#### UDT – Underbreacing Dragin Teacher

1		32
	T	

#### SD – Stand Dragin

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R Root Field Teacher

H Hingg

BT Bid Teacher



## Read

After this bid, the bespocen tally of 8-strings will be overdragged from the main hold to the Gerät.

1	2	3	4	5	10	11	32
*	*	1	0	0	0	0	0
							A
1	2	3	4	10	11	32	
*	*	1	0	1	0	0	0
							L
33							64
							A

## Write

After this bid, the bespocen tally of 8-strings will be overdragged from the Gerät to the main hold.

1	2	3	4	5	10	11	32
*	*	1	1	0	0	0	0
							A
1	2	3	4	10	11	32	
*	*	1	1	1	0	0	0
							L
33							64
							A

## Drive

### Broocs

The gangway oneling starts a brooc when it is underbrocen with a stand dragin in which *S* in *BT* is **Running**.

### Falls

The gangway oneling writes *BT* to the main hold cell following *UTZ* + 4.

Then the gangway oneling frames a brooc made of only one steer bid with the following fields:

- *S* alice 1;
- *U* alice 1;
- *A* alice 0.