Use of buttons in the toolbars "SUT-maintenance" and "Adjust".



Edit personal settings. Used to choose drive letters and the name of the workbook from which data is extracted or to which data is saved. The chosen values must correspond to drives and a SUT-filename that actually exist! The choices can be used temporarily or they can be saved for future use by pressing either "Use" or "Save".

Personal ID: 3 characters)	SHL	Program (macro) directory:) <u>s</u>	:\Jordan\SUT\SUT-S}	/stem\Prog
Own- lirectory: C:\		Description directory:	S	:\Jordan\SUT\SUT-S\	/stem\Prog
Vork- irectory: E:\		SUT-data directory:	S	:\Jordan\SUT\SUT-S\	/stem\
elected SUT- vorkbook:	SUT C 2010.)	ds			
SUT First year: 2	000 First vear:	correction 2	010	Last correction year:	2010
First year, 2 yy-1 prices: 2	000 First year,	correction 2 yy-1 prices: 2	007	Last correction year, yy-1 prices:	2007
	First	year in 2	000	Last year in timeseries:	2007

The "Reset" button will remove any changes made since the form was opened. The "Default" button will set all choices back to their default values. None of these buttons will change anything until the "use" or "save" button is pressed.

Extract one - or a range of - rows (product balances) from the selected SUT framework. Rows can be selected with the mouse by selection of a specific row or a range of rows. Pressing the button will open a form-window:

•					
	85800	37.0	85		
culture, hunting, forestry, fishi	86000	6.6	94	6.042	
installation (except construction	87000	594.1	71	3.604	18
on physical inputs owned by o	88000	82.4	20	8	
eproduction services	89100	18.6	78		
ping, extruding and similar plas	89201	elect rows	to extract:		X
ig and similar metal manufactur	89301				
cling) services, on a fee or co	8940		First:	Last:	
ion	9100		00000	00000	
n-market	9100!	Product:	86000	88000	, ,
ket	92001				-8
	9200(
arket	9200	Year: 2	2010	Cancel	OK
	9200				
arket	92009	606.0	33		
narkat	03000	842.2	50	657	

The selection of first and last row is shown in the form. They may be overwritten by a changed selection. When "OK" is pressed the rows from "First:" to "Last:" are extracted to a sheet in the standardized format that can – after editing – be used to enter corrections into the SUT-framework.

Extract one – or a range of - columns (industries, consumption groups or other columns) from the selected SUT-framework. Columns can be selected with the mouse by selection of a specific column or a range of columns. Pressing the button will open a form-window:



The selection of transaction codes and industry- or consumption group for the first and last column is shown in the form. They may be overwritten by another selection. If first and last transaction code are entered as "0100" and "2000" the extracted list will show outputs and inputs for each of the chosen industries. When "OK" is pressed the selected columns are extracted to a sheet in the standardized format that can – after editing – be used to enter corrections into the SUT-framework.

Extracted data for rows or columns are placed as Excel-workbooks in the directory for temporary files, "C:\xtrdrv". This directory should be cleaned regularly as it will otherwise be filled up with old temporary sheets. Extracted rows and columns will have the format shown below:

	3110 05 C 2010 RT.xls													- 0 :
4	A	В	C	D	E	F	G	Н	1	J	K	L	M	N
1	2010	Curren	nt prie	ces.										
2														
3													1 1	_
4		•												
5		* Furnist	hings, h	ouseh.ea.	maintenance									
6		•												
7		•												
8	Group: 05 Use:	Product	Trans	Group	BasicPrice	Wholes.mrg	Retail mrg	Taxes net	Pur.ex.VAT	VAT	PurchPrice	Prim.Stat		
9	Textile articles other than app	27000	3110	05	20.665	1.441	5.513	0	27.619	0	27.619			
10	Luggage, handbags and the lik	29200	3110	05	10.054	701	3,755	0	14.510	0	14.510			
11	Pulp, paper and paperboard	32100	3110	05	48.907	0	7.318	0	56.225	0	56.225			
12	Other light petroleum oils and	33330	3110	05	37.885	1.143	3.545	0	42.573	0	42.573			
13	Fertilizers and pesticides	34600	3110	05	2.386	72	651	0	3.109	0	3.109			
14	Soap, cleaning preparations, p	35300	3110	05	183.455	12.778	70.105	0	266.338	0	266.338			
15	Chemical products n.e.c.	35900	3110	05	3	0	1	0	4	0	4			
16	Rubber and plastics products	36000	3110	05	6.342	516	779	0	7.637	0	7.637			
17	Glass and glass products	37100	3110	05	19.374	1.576	2.419	0	23.369	0	23.369			
18	Non-structural ceramic ware	37200	3110	05	914	74	112	0	1.101	0	1.101			
19	Furniture	38100	3110	05	16.868	706	5.199	0	22.773	0	22.773			
20	Other manufactured articles n.	38900	3110	05	16.871	1.725	5.631	0	24.226	0	24.226			
21	Copper, nickel, aluminium, alu	41400	3110	05	1.694	24	0	0	1.717	0	1.717			
22	Fabricated metal products, exc	42000	3110	05	10.064	140	2.317	0	12.522	0	12.522			
23	Domestic appliances and parts	44800	3110	05	55.796	5.706	13.967	0	75.470	0	75.470			
24	Electric motors, generators and	46100	3110	05	208	11	0	0	219	0	219			
25	Accumulators, primary cells an	46400	3110	05	655	35	366	0	1.056	0	1.056			
26	Lighting equipment, Other elec	46800	3110	05	1.644	87	414	0	2.145	0	2.145			
27	Other services	97000	3110	05	125.014	0	0	0	125.014	0	125.014			
28	Domestic services	98000	3110	05	59.158	0	0	0	59.158	0	59.158			
29		1												
30	Furnishings, househ.eq., main	! Total			617.956	26.736	122.093	0	766.786	0	766.786			
31		1												212
H	4 ▶ N 3110 05 C 2010 RT	2/								JIII				•

Values shown as italics are marked as "predetermined", meaning that they are not included in automatic adjustments.

ŝ	A	В	C	D	E	F	G	н	I	J	K	L	M	N
	2010	Curren	nt pri	ces.										
		*												
		* Furnis	hings, h	ouseh.eq.	, maintenance				Values for uses	entered in pu	urchasers' prices			
		*								1				
		*									1			
	Group: 05 Use:	Product	Trans	Group	BasicPrice	Wholes.mrg	Retail mrg	Taxes net	Pur.ex.VAT	VAT	urchPrice	Prim.Stat		
	Textile articles other than app	27000	3110	05							27.619			
0	Luggage, handbags and the lik	29200	3110	05							14.510			
1	Pulp, paper and paperboard	32100	3110	05							56.225			
2	Other light petroleum oils and	33330	3110	05							42.573		J	
3	Fertilizers and pesticides	34600	3110	05							3.109	/		
4	Soap, cleaning preparations, p	35300	3110	05							266.338	/	4	
5	Chemical products n.e.c.	35900	3110	05					Values are de	eleted here	\geq			
6	Rubber and plastics products	36000	3110	05						>	/			
7	Glass and glass products	37100	3110	05						2	4		d	
8	Non-structural ceramic ware	37200	3110	05						1				
9	Furniture	38100	3110	05									4	
0	Other manufactured articles n.	38900	3110	05									a	
1	Copper, nickel, aluminium, alu	41400	3110	05								/	0.00	
2	Fabricated metal products, exc	42000	3110	05		A						/		
3		1							7					
4	Furnishings, househ.eq., main	1 Total									410.375			
5		1							/					
6					1		The area inside	e the rectangle	e is used by the s	ofware to fill	the SUT-enviro	ntment		
7														
8			The a	rea outsid	e the rectangle	e is for your infe	ormation only.							
9			It is ig	nored by	the software v	vhen data is en	tered into the S	UT-framewok						
n								-						

The same format is used when data is entered into the SUT-framework:

The following information from the input-data sheet is ignored when data is entered into the SUT environment:

- Blank lines
- Headers, lines with
- Text from column "A"
- Comments, lines with a leading "*" in column "B"
- Rows surrounding column-totals, lines with a leading "!" in column "B"

Values within the "rectangle" are entered into the framework where they replace the previous values at the same place. This applies to all levels from "Basic" to "Purch". It is in most cases appropriate to enter values on the uses side as purchasers' prices only. The software will then insert formulas that calculate the values in the layers from "Basic" to "VAT". The formulas are based on a set of assumptions and may be overridden by constant values. It is, however, recommendable that this is only done where the formulas produce improbable results, typically for goods that have negative uses (scrap, sales of used equipment etc.). If corrections are written as italics they will be saved as "predetermined" values that are excluded from further automatic adjustments.

Test whether values from the active datasheet can be entered successfully into the SUT-framework. A sheet in the standardized format with corrections is read and validated. When a formal error or a code that cannot be found in the SUT-framework is encountered, an error message is added to the right of the data-line. Values for trade and transport margins, net taxes or VAT that can be determined implicitly are added to the input sheet.

Save values from the active datasheet into the SUT-framework. Use the "Test"-button first to make sure that the active sheet does not contain logical errors or invalid codes. Use of the "Save" button will repeat the validation of the corrections sheet, but will also enter the corrected values into the SUT framework. When cells for margins, taxes and VAT are left blank, these values will be calculated automatically by formulas using the default assumption build into the macros. If some margin, taxes or VAT values are entered as values instead of empty cells, the these values will replace the formulas.

Test modifications to rows. See whether an active sheet with instructions to add, delete or rename rows can be entered successfully. The datasheet should have the following form:

4	A	В	C	D	E	F	-
1	2007	Curre	nt prices				
2							
3							
4		*					
5		* Splittin	g of product	code for m	eat and meat	products	
6		*					=
7		*					
8	Industry: 15 Interm.cons:	Product	Action				
9	Meat and meat products	15100	Delete				
10	Meat	15101	Add				
11	Meat products	15103	Add				
12	Offals from meat production	15107	add				_
13	Bovine cattle, live and slaughtered	01210	rename				
14	Grasses and hay	01100	delete				
15	Houshold own account GFCF	99000	delete				
16							-
14	Product Code-changes	Produ	ct Code cha	nadi 4	100		1

Add modifications to rows. Add, delete or rename rows in the chosen SUT-environment as described by instructions in the active data-sheet. Use the test-button above to make sure that the instructions can be entered successfully. The corrections will affect all layers of the SUT-system. New rows will contain the same formulas for calculation of totals as the surrounding rows, but will not contain values until they are entered form a standardized corrections sheet.

Vertical-horizontal adjustment. Proportional adjustment of column-/row- values to column-/row-targets. Adjustments are limited to the selected areas in the SUT. Predetermined values – values shown as italics – are left unchanged.

Automatic changes will only take place where the adjustment factor can be kept within the interval from 0.2 to 5.0.

A comprehensive description on selection of areas of varying shapes can be found in the explanation to the button "Fill layers below purchasers' price".

At this moment five adjustment methods are available:

- 1. Vertical
- 2. Horizontal
- 3. RAS area
- 4. RAS totals
- 5. Final uses

On the supply side all adjustments take place at basic prices.

On the uses side:

Vertical adjustment of column-totals to column-targets take place in purchasers' prices as this is the value concept for which primary statistics is available.

Horizontal adjustment of row-totals of the use table to the supply-totals from the supply table is not quite as simple as long as adjustments on the uses side are made in purchasers' prices.

When a product is completely balanced, supply and use will need to balance for all layers from basic to purchasers' prices. As long as it is the purchasers' prices layer that contains constant values and the

layers below are calculated by formulas, a horizontal adjustment will need to start by adjusting the product-totals to supply at purchasers' prices.

Supply by products at purchasers' prices is found in the "Bridge column" in the left side of the usetable where it is calculated as the row-totals from the supply table at basic prices plus the totals for trade margins, net taxes and VAT as they are calculated by the formulas at the uses side. As long as these supply values are not fixed as constants, adjustments in the purchasers' price layer will affect the calculation of supply of margins and taxes. The targets for supply at purchasers' values will then move away from their previous values. It follows that for most products equality between supply and use at purchasers' prices can only be achieved by use of an iterative calculation where the changes in margins and taxes calculated from the uses side are gradually reduced until a stable value for supply at purchasers' prices is obtained.

The "RAS"-methods furthermore combine successive vertical and horizontal adjustments. Convergence will here require that the sum of distances between totals and targets is close to zero for the columns that are included in the adjustment, and that the range/s selected for the adjustment contain/s sufficient values that are common to the selected rows and columns.

1) Vertical. Example:

of o	Manufacture of textiles 2000	Manuf. wearing apparel, fur 2000	Manuf. Leather prod;tanning 2000	Manuf, wood, cork, ex.furnit. 2000	Manuf. pulp,paper, paper prod. 2000	Publishing, printing,rec.m edia 2000	Man etro
	17	18	19	20	21	22	_
	(Select area (F	Rows / Colum	ns)	×	67	
		Adjustment type:	Choose Vertica	The Iter	rations:	1.647	
	_	Product:					
		Transaction:	2000	20	00		
		Industry/Gro	up: 19	20			
		Year: 201	.0 T	est Cance	ок		
					_		

The entire columns for industry 19 and 20 are selected for vertical adjustment to targets. For columns on the uses side margins and taxes are recalculated. Columns with a "Total" header are not adjusted, but as they contain "sum"-formulas they are automatically updated to show the changes in totals. Adjustment of column-totals to their targets will usually result in new differences between supply and use for a number of products.

2) Horizontal. Example:

2010			Bridge		Intermed	liate cons	umption
Million JD			Bridge column		Agriculture, hunting,rel. serv.	Forests, logging, related serv.	Fishing, fish farms, rel.serv.
Transaction cod	e		1000		2000	2000	2000
Industry / Conso	roup	1.00			01	02	05
Tea leaves		01620	22.773	2		-	
Maté leaves Cocoa beans	Select a	rea (Row:	; / Columns)		×		
Spice and aromatic crops	1			_	-		
Stimulant, spice and aron	Adjust	ment	Vertical	A Ito	rations: 5		
Dried beans, peas, lentils	type:		Horizontal	- 10C			
Sugar crops			First:	Last			
Forage products							
Cotton, jute, other fibre c	Produc	t:	02150	02	2300		
Plants for perfumery, pha				_			
Beet seeds (excluding si		1.00					
Natural rubber in primary	Transa	iction:		1			
Living plants; cut flowers	8	1	6				
Unmanufactured tobacco	Indust	ry/Group:					
Raw vegetable materials		//					
Bovine animals, live	1.5	2010	**	-			
Sheep, goats, other rumi	Year:	2010	lest	Cance	OK		
Horses and other equine		64 (S)		10,858			
Swine / pigs		02140	0	2		THE REAL PROPERTY OF	
Poultry		02150	395,183		62.353		
Other live animals		02190	2.387		705		
Raw milk		02200	150.355		0		
Eggs of hens or other bin	ds in shel	l f 02300	131,982		46,650		
Reproductive materials of	fanimals	02400	149		an a		
Natural honey		02910	6 777		177		
Edible products of animal	ariain a a	0 0 20 20	0				

The entire rows from product 02150 to 02300 are selected for horizontal adjustment to supply. As recalculation of margins and taxes may change supply in purchasers' prices a complete adjustment of use to supply may require a number of iterations. In this example 5 iterations are chosen.

When rows are selected, pressing the "Vertical/Horizontal adjustments" –button opens a form that shows the selected range of rows. If the "Test" button on this form is pressed the default limits for columns included in the adjustment are shown. Notice, that the default selection will exclude the column for exports that should as a general rule remain unchanged by horizontal balancing. It is possible to override this choice by entering other values in the form except in cases where the selection includes multiple ranges. Values that cannot be changed are shown with a blue colour.

Columns that show totals for transaction codes contain "sum"-formulas. Hence the columns with a "Total"-header are updated automatically, but they are only indirectly affected by the balancing.

It is usually necessary to choose a suitable number of iterations. A number of iterations that is too small will result in an incomplete balancing. The process can be repeated with a new figure for iterations until the last remaining differences between supply and use are eliminated. In general it takes between 5 and 15 iterations to eliminate the differences.

Pressing the "OK" button on the form will start balancing of the selected area. When the calculation is finished, the cells that were directly included are marked with a red colour. "Total"-columns within the selection are coloured grey to show that they are only indirectly affected.

In some cases it is impossible to remove differences in this way. Balancing a product requires that the product-row contains values that can be adjusted by the value of the initial difference. This may not be possible, because adjustable uses are missing or because the uses that would need to be adjusted are predetermined. In such cases the product must be balanced manually.

1	2010							
3	Million JD	Publishing, printing,rec.m edia	Manuf.coke,p etroleum,nucl. fuel	Manuf. chemicals,ch em.products	Manuf. rubber,plastic products	Manuf.other non-metallic prod.	Manufacture of basic metals	Manuf. metal prod.ex.machi nerv
4	Transaction code	2000	2000	2000	2000	2000	2000	2000
5	Industry / Consgroup	22	23	24	25	26	27	28
103	Wood, sawn, shaped, fibreboard, ve 311	00	1.00	1.000		88	7	63
104	Other products of wood; articles of c 318	00		_		29		
105	Pulp, paper and paperboard 321	14.451		Salact area	Pours / Colum	200	- X	919
106	Books, in print 322	44.585		Select area	(Rows / Colum	(15)	-	
107	Newspapers and periodicals, in print 323	6.046			-			-
108	Other printed matter. Type, plates etc 329	00 692	210	Adjustment	Vertica	Tte	arations: 5	477
109	Coke and semi-coke of coal, of lignite 331	00		type:	Horizor	ntal 💌 🔐		
110	Tar distilled from coal, from lignite or 1332	00			First:	Last	• 5	
111	Motor spirit (gasolene), including avia 333	10 1.268	48.303		T in Del			6.266
112	Jet fuel 333	20		Product:	33330	3	6000	
113	Other light petroleum oils and light oils 333	30	2.169.266	1	1			
114	Petroleum and medium oils, gas-, fuel 333	90 32	86	-	2000	2	000	172
115	Petroleum gases and other gaseous 334	00		Iransaction	: 1 2000	1 -	000	
116	Other petroleum products 339	00						
117	Basic chemicals 341	00 112		Industry/Gr	oup: 23	2	5	153
118	Fertilizers and pesticides 346	00		1.0000000000000000000000000000000000000				
119	Plastics in primary forms 347	00 421		20	10	est Cano		
120	Synthetic rubber and factice derived 348	00		rear;		cor conc		
121	Paints and varnishes and related pro 351	10.269						8.622
122	Pharmaceutical products 352	00		40.592	2	6		
123	Soap, cleaning preparations, perfume 353	225	238	33.100	150	517	145	311
124	Chemical products n.e.c. 359	254		4.738	2.951	7.282		167
125	Rubber and plastics products 360	476	626	24.843	7.598	476	209	1.050
126	Glass and glass products 371	00		2.290		4.984	1	7.124
127	Non-structural ceramic ware 372	00				86		
128	Other non-metallic mineral products n 379	no		1 757		71 158		51

It is possible to limit the adjustment to one or more specific areas of the SUT as shown in the example above where a horizontal adjustment changes values within an area delimited by products 3330 to 36000 and input in industries 23 to 25.

Selection of the area that is included in an adjustment can take the form of multiple ranges. For a full description of possible selections, see below under the description of the "Selection tool".

	1										
1	2010										
2											
3	Million JD	Manuf.other non-metallic prod.	Manufacture of basic metals	Manuf. metal prod.ex.machi nery	Manuf. machinery and	Manuf.office machin. computers	Manuf. electric machinery,ap	Manuf. radio,TV,com m.equipment	Manuf.med,pr ecis,optical instr	Manuf. motor veh., trailers	Man tr equ
4	Transaction code	2000	2000	2000	2000	2000	2000	2000	2000	2000	
5	Industry / Consgroup	26	27	28	29	30	31	32	33	34	
128	Other non-metallic mineral products n 37900	71.158		51	248		18	1.00		8	3
129	Furniture 38100	85		46			1.802			8	3
130	Jewellery and related articles 38200			-							
131	Musical instruments, Sports goods, G 38400			Select	area (Rows / I	Columns)		×			
132	Prefabricated buildings 38700										
133	Other manufactured articles n.e.c. 38900	125		Adjust	mont .		-		1.292	3	3
134	Wastes from food and tobacco indus 39100			Aujust		AS area	Iterations:	10			
135	Non-metal wastes or scraps 39200			type.	-	inal uses	<u> </u>				
136	Metal wastes or scraps 39300	12	11.243		First	t:	Last:				
137	Other wastes and scraps 39900		100000			1100	46200				
138	Basic iron and steel 41100	1.305	149.224	Produ	ct: 7	1100	40300		226	4.076	5
139	Products of iron or steel 41200	471	28.133				-	_		809	3
140	Basic precious metals and metals cla 41300		1.776	Trans	action: 2	000	2000		76		
141	Copper, nickel, aluminium, alumina, le: 41400	153	12.368							3.504	4
142	Other non-ferrous metals and articles 41600					7	34				
143	Fabricated metal products, except ma 42000	2.489	1.512	Indust	try/Group: -	,	1 51		153	1.260	٥
144	General-purpose machinery 43000	in the second				1.000	1				
145	Special-purpose machinery and parts 44100	15.193	5.993	Year:	2010	Test	Cancel (Ж	160	4.904	4
146	Weapons and ammunition and parts t 44700										
147	Domestic appliances and parts there 44800		8		0.030	1	14				
148	Office, accounting and computing ma 45000		1	19							
149	Electric motors, generators and trans 46100		1	89	1.348		35.632				
150	Insulated wire and cable; optical fibre 46300			121	259	5	1.789				
151	Accumulators, primary cells and prim 46400				60						T
152	Lighting equipment, Other electrical e 46800		70	2	3.229		15.698			1	1
					-						

3) RAS-area. Example:

Here a sequence of vertical and horizontal adjustments is performed as many times as shown by the "Iterations" field.

Adjustment to row- and column targets is performed by changes within an area delimited by products from 41100 to 46300 and input in industries from 27 to 34. The number of iterations is chosen as 10.

It is possible to select a number of areas, for instance within intermediate consumption, household consumption and GFCF, that will be included in the adjustments to row- and column targets.

Generally after the calculation some – smaller – differences between column-totals and –targets will remain.

The "RAS"-area calculation keeps the sum of use at purchasers' prices constant for each product while the redistribution moves values between the included columns. This will probably change some underlying margins and taxes and thus create some new differences between supply and use for a number of products. Such differences can – of course – be eliminated by a renewed horizontal balancing.

4) RAS-total.

This method does the same as the "RAS-area" method with the modification, that the sums of use by products at purchasers' prices are not kept constant during the redistribution. Instead the horizontal adjustment to total supply at purchasers' prices is recalculated in each round of the calculation and the calculation finishes with a horizontal adjustment that usually removes remaining differences between supply and use.

5) Final horizontal adjustment of all layers for uses to the values in the bridge column. Example:

2010							Housenoi	d final con	sumptio
Million JD		Membership organisations n.e.c	Recreation, culture, sport	Other services	Priv.househ. w.employed persons	Intermediate consumption	Food, non- alcoholic beverages	Alcoholic beverages, tobacco	Clothing ai footwea
Transaction code		2000	2000	2000	2000	Total	3110	3110	3110
Industry / Consgroup		91	92	93	95	8	01	02	03
Ice and snow	17400					0	1 Internation		
Natural water	18000	1.200	010	1.046	2	111.553			
Meat and meat products	21100	Select ar	ea (Rows / Col	umns)		289.549	900.010	0	2
Prepared and preserved fish, crusta	21200					0	77.250		
Prepared and preserved vegetables,	21300	Adjuster	ont Dec		i –	37.551	26.574		
Prepared and preserved fruit and nu	121400	Aujusui	RAS	area 🔺	Iterations:	1.155	133.235		
Animal and vegetable oils and fats	21500	type.	Fina	luses 🔛		139,782	212.797		
Oil-cake and other residues resulting	21900		First:		Last:	0			
Processed liquid milk and cream	22100		2110	0	25000	13			
Other dairy products	22200	Product	: 2110	0	25000	13.087	302.010		
Eggs, in shell, preserved or cooked	22300					- 0			
Grain mill products, starches etc.	23100	Transac	tion: 3110	6 C	3110	213.630	231.829		
Bakery products	23400	in childred				13.765	210.316		
Sugar	23500				02	44.361	116.384		
Cocoa, chocolate and sugar confect	i 23600	Industry	//Group:		02	11.929	147.190		
Macaroni, noodles, couscous and si	23700		r			1 0	14.274		1
Coffee and tea	23910	Year:	2010	Test C	ancel OK	27.499	153.882		
Other food products	23990	, reality L				22.249	247.091		
Ethyl alcohol; spirits, liqueurs and oth	24100					19.137		1.447	
Wines	24200					0		429	
Beer made from malt, malt	24300					0		812	
Soft drinks; bottled mineral waters	24400		203			77.192	95.512		
Tobacco products	25000	0	24			144.845		480.668	
Yarn and thread; woven and tufted t	26000	14		30)	181.894			1.2
Textile articles other than apparel	27000		16	40)	2.141			
							-		

Adjustment is in this example limited to the area from product 21100 to 25000 and household final consumption groups from 01 to 02.

This facility should only be used when the final balancing is finalized as it replaces formulas with constant values. If – before the adjustment - the bridge column's totals contain the correct values for total margins, net taxes and VAT, it will simultaneously – for all layers - remove any remaining differences between the supply and use. It may create a few new differences between column-totals and –targets that may need to be removed by final manual adjustment.

Fill layers below purchasers' price. Performs a complete replacement of all formulas used for calculation of the layers from basic prices to VAT. Formulas for calculation of trade and transport margins, taxes on products and VAT are inserted where values have been entered in the purchasers' prices layer on the uses side. Values already entered in these layers as constants are not replaced. Is used to insert such formulas in the initial version of the use table where values have been entered at purchasers' prices. It can also be used to repair a use table if the formulas have been unintentionally overwritten.



Selection tool. Pressing the key has the effect that all cells with the same foreground colour as the presently selected cell are selected. The effect is the same as if the area in question was selected manually.

A manual multiple selection is made by holding the Ctrl-button down while selecting the areas in question. If a manual selection shall include several areas or isolated cells it will usually require a precise sequence of correct key-presses and movements of the pointer. It can be done with some skill, but it is much easier to use a colour to mark the cells that shall be included in the selection.

Using a colour it is possible to select or deselect areas before the selection is actually chosen. This is particularly useful when selections are made with the key "Vertical / Horizontal adjustment" that can restrict adjustments to non-contiguous selections of areas and cells within the uses side of the system.

There are various ways to select rows, columns, contiguous or non-contiguous areas. On the following pages are shown some examples of selections:

Rows can be selected manually in various ways: Selection of whole rows

Selection of cells within the respective rows, but to the left or right of the "Table" area

2010										
		Bridge column	Txt	Txt	Txt	Txt	 Txt	Uses		
Transaction code		1000	nnnn	nnnn	nnnn	nnnn	 nnnn	Total		
Industry / Consgr.			nn	nn	nn	nn				
		Tab	le:							
Txt	nnnnn	98	2	3			 80	98		
	nnnnn	113	3	4	5	6	 81	113		
Txt	nnnnn	119	4	5	6	7	 82	119		
Txt	nnnnn	120		6	7	8	 83	120		
Txt	nnnnn	131	6	7	8	9	 84	131		
							 		Calcul	ations
Txt	nnnnn	697	149	150	151		 227	697		
Txt	nnnnn	702	150	151	152		 228	702		
Txt	nnnnn	709	151		153	154	 229	709		
Txt	nnnnn	178				155		178		
Txt	nnnnn	180				156		180		
Totals:										
				Calc	ulation	s:				
		Purch								

The manual selection shown above would include the cells coloured with red:

2010										
		Bridge column	Txt	Txt	Txt	Txt	 Txt	Uses		
Transaction code		1000	nnnn	nnnn	nnnn	nnnn	 nnnn	Total		
Industry / Consgr.			nn	nn	nn	nn				
		Tab	le:							
Txt	nnnnn	94	2	3			 80	94		
Txt	nnnnn	109	3	4	5	6	 81	109		
Txt	nnnnn	115	4	5	6	7	 82	115		
Txt	nnnnn	116		6	7	8	 83	116		
Txt	nnnnn	127	6	7	8	9	 84	127		
							 		Calculation	S
Txt	nnnnn	693	149	150	151		 227	693		
Txt	nnnnn	698	150	151	152		 228	698		
Txt	nnnnn	705	151		153	154	 229	705		
Txt	nnnnn	174				155		174		
Txt	nnnnn	1/6				156		1/6		
Totals:										
				Calc	ulation	IS:				
		Durch								_

If instead the same cells are manually coloured red and a red cell is selected: Pressing the button "Select cells marked with colour" will expand the selection to include the cells shown below:



Columns can be selected manually in various ways: Selection of whole columns

Selection of cells within the respective columns, but above or below the "Table" area

2010										
		Bridge column	Txt	Txt	Txt	Txt	••••	Txt	Uses	
Transaction code		1000	nnnn	nnnn	nnnn	nnnn		nnnn	Total	
Industry / Consgr.			nn	nn	nn	nn				
		Tab								
Txt	nnnnn	92	2	3				80	94	
Txt	nnnnn	106	3	4	5	6		81	109	
Txt	nnnnn	111	4	5	6	7		82	115	
Txt	nnnnn	116	-	6	7	8		83	116	
Txt	nnnnn	121	6	7	8	9		84	127	
										Calculations
Txt	nnnnn	544	149	150	151			227	693	
Txt	nnnnn	548	150	151	152			228	698	
Txt	nnnnn	554	151		153	154		229	705	
Txt	nnnnn	174				155			174	
Txt	nnnnn	176				156			176	
Totals						_				
rouna.										
				Calc	ulation	s:				
		Purch								

The manual selection shown above would include the cells coloured with red:

2010									
		Bridge column	Txt	Txt	Txt	Txt	 Txt	Uses	
Transaction code		1000	nnnn	nnnn	nnnn	nnnn	 nnnn	Total	
Industry / Consgr.			nn	nn	nn	nn	 		
		Tab	le:						
Txt	nnnnn	92	2	3			 80	94	
Txt	nnnnn	106	3	4	5	6	 81	109	
Txt	nnnnn	111	4	5	6	7	 82	115	
Txt	nnnnn	116		6	7	8	 83	116	
Txt	nnnnn	121	6	7	8	9	 84	127	
							 		Calculations:
Txt	nnnnn	544	149	150	151		 227	693	
Txt	nnnnn	548	150	151	152		 228	698	
Txt	nnnnn	554	151		153	154	 229	705	
Txt	nnnnn	174				155		174	
Txt	nnnnn	176				156		176	
Totals:									
				Calc	ulation	e .			
				calc	uladon	э.			
	-	Purch					 		

If instead the same cells are manually coloured red and a red cell is selected: Pressing the button "Select cells marked with colour" will expand the selection to include the cells shown below:

2010									
		Bridge column	Txt	Txt	Txt	Txt	 Txt	Uses	
Transaction code		1000	nnnn	nnnn	nnnn	nnnn	 nnnn	Total	
Industry / Consgr.			nn	nn	nn	nn			
		Tab	le:						
Txt	nnnnn	92	2	3			 80	94	
Txt	nnnnn	106	3	4	5	6	 81	109	
Txt	nnnnn	111	4	5	6	7	 82	115	
Txt	nnnnn	116		6	7	8	 83	116	
Txt	nnnnn	121	6	7	8	9	 84	127	and the second second
		1.0.0					 		Calculations:
Txt	nnnnn	544	149	150	151		 227	693	
Txt	nnnnn	548	150	151	152		 228	698	
Txt	nnnnn	554	151		153	154	 229	705	
Txt	nnnnn	174				155		174	
Txt	nnnnn	176			_	156		176	
Totals									
TOTALS.									
				Calc	ulation	s:			
		Purch					 		

Transaction code Industry / Consgr. Txt nnnn Txt nnnn Txt nnnn Txt nnnn Txt nnnn	1000 Tab nn 92 nn 106 nn 111 nn 116	nnnn nn le: 2 3 4	nnnn nn 3 4	nnn	nnnn nn		nnnn	Total	
Txt nnnr Txt nnnr Txt nnnr Txt nnnr Txt nnnr Txt nnnr	Tab nn 92 nn 106 nn 111 nn 116	nn le: 2 3 4	nn 3 4	nn	nn				
Txt nnnr Txt nnnr Txt nnnr Txt nnnr Txt nnnr Txt nnnr	Tab nn 92 nn 106 nn 111 nn 116	2 3 4	3 4				00	00	
Txt nnnr Txt nnnr Txt nnnr Txt nnnr Txt nnnr	nn 92 nn 106 nn 111 nn 116	2 3 4	3 4				00	00	
Txt nnnr Txt nnnr Txt nnnr Txt nnnr	nn 106 nn 111 nn 116	3 4	4	-			80	96	
Txt nnnr Txt nnnr Txt nnnr	nn 111 nn 116	4		5	6		81	110	
Txt nnnr Txt nnnr	nn 116		5	6	7		82	115	
Txt nnnr	10.1		6	7	8		83	120	
	nn 121	6	7	8	9		84	125	
									Calculations
Txt nnnr	nn 544	149	150	151			227	548	
Txt nnnr	nn 548	150	151	152			228	552	
Txt nnnr	nn 554	151		153	154		229	558	
Txt nnnr	nn 17 4				155			178	
Txt nnnr	nn 176				156	•••		180	
Totals:						_			
			Calc	ulation	e .				

A simple contiguous range can be selected within the "Table" area

The manual selection shown above would include the cells coloured with red:

2010									
		Bridge column	Txt	Txt	Txt	Txt	 Txt	Uses	
Transaction code		1000	nnnn	nnnn	nnnn	nnnn	 nnnn	Total	
ndustry / Consgr		-	nn	nn	nn	nn			
		Tab	le:						
Txt	nnnnn	92	2	3			 80	96	
Txt	nnnnn	106	3	4	5	6	 81	110	
Txt	nnnnn	111	4	5	6	7	 82	115	
Txt	nnnnn	116		6	7	8	 83	120	
Txt	nnnnn	121	6	7	8	9	 84	125	
							 		Calculations:
Txt	nnnnn	544	149	150	151		 227	548	
Txt	nnnnn	548	150	151	152		 228	552	
Txt	nnnnn	554	151		153	154	 229	558	
Txt	nnnnn	174				155		178	
Txt	nnnnn	176				156		180	
Totals:									
				Calc	ulation	s:			
	-	Purch							

If instead the same cells are manually coloured red and a red cell is selected: Pressing the button "Select cells marked with colour" will expand the selection to include the cells shown below:

		Bridge column	Txt	Txt	Txt	Txt		Txt	Uses	
Transaction code		1000	nnnn	nnnn	nnnn	nnnn		nnnn	Total	
ndustry / Consgr.			nn	nn	nn	nn				
		Tab	le:							
Txt	nnnnn	92	2	3				80	126	
Txt	nnnnn	106	3	4	5	6		81	140	
Txt	nnnnn	111	4	5	6	7		82	145	
Txt	nnnnn	116		6	7	8		83	150	
Txt	nnnnn	121	6	7	8	9		84	155	
										Calculations
Txt	nnnnn	544	149	150	151			227	578	
Txt	nnnnn	548	150	151	152			228	582	
Txt	nnnnn	554	151		153	154		229	588	
Txt	nnnnn	174				155			208	
Txt	nnnnn	176				156			210	
Totals:										
				Calc	ulation	s:				
		Durch	-				_			

Multiple areas can be selected manually in various ways. An example: Selection of whole rows

Selection of ranges or cells within the "Table" area.

		Bridge column	Txt	Txt	Txt	Txt	 Txt	Uses	
Transaction code		1000	nnnn	nnnn	nnnn	nnnn	 nnnn	Total	
Industry / Consgr.			nn	nn	nn	nn			
		Tab	le:						
Txt	nnnnn	92	2	3			 80	96	
Txt	nnnnn	106	3	4	5	6	 81	110	
		111	4	5	6	7	 82	115	
Txt	nnnnn	116		6	7	8	83	120	
Txt	nnnnn	121	6	7	8	9	 84	125	
							 		Calculations
		101010					 		
Txt	nnnnn	544	149	150	151		 227	548	
Txt	nnnnn	548	150	151	152		 228	552	
Txt	nnnnn	554	151		153	154	 229	558	
Txt	nnnnn	174				155		178	
Txt	nnnnn	176				156		180	
Totolar							 		
rotais:									
				Calc	ulation	s:			
	l	Durah		-					

The manual selection shown above would include the cells coloured with red:

2010										
		Bridge column	Txt	Txt	Txt	Txt		Txt	Uses	
Transaction code		1000	nnnn	nnnn	nnnn	nnnn		nnnn	Total	
Industry / Consgr.			nn	nn	nn	nn				
		Tab	ole:							
Txt	nnnnn	92	2	3				80	96	
Txt	nnnnn	106	3	4	5	6		81	110	
Txt	nnnnn	111	4	5	6	7		82	115	
Txt	nnnnn	116		6	7	8		83	120	
Txt	nnnnn	121	6	7	8	9		84	125	
		(222)								Calculations
		10000						1111		
Txt	nnnnn	544	149	150	151			227	548	
Txt	nnnnn	548	150	151	152			228	552	
Txt	nnnnn	554	151		153	154		229	558	
Txt	nnnnn	174				155			178	
Txt	nnnnn	176				156	•••		180	
Totals:										
				Calc	ulation	s:				
		Purch								

If instead the same cells are manually coloured red and a red cell is selected: Pressing the button "Select cells marked with colour" will expand the selection to include the cells shown below:

Txt Txt Txt	nnnnn nnnnn nnnnn	548 554 174	150 151	151	152 153	154 155		228 229	582 588 208	
Txt	 		149				···· ···			Calculations:
Txt Txt Txt	nnnnn nnnnn	116 121	6	6 7	6 7 8	7 8 9		83 84	145 150 155	
Txt Txt	nnnnn nnnnn	7ab 92	le: 2 3	3	5	6	 	80 81	126 140	
Transaction code ndustry / Consgr.		1000	nnnn	nnn nn	nnnn nn	nnnn nn		nnnn	Total	
		Bridge	Txt	Txt	Txt	Txt		Txt	Uses	

Multiple areas can be selected manually in various ways. An example: Selection of columns

Selection of ranges or cells within the "Table" area.

2010									
		Bridge column	Txt	Txt	Txt	Txt	 Txt	Uses	
Transaction code		1000	nnnn	nnnn	nnnn	nnnn	 nnnn	Total	
Industry / Consgr.			nn	nn	nn	nn			
		Tab	le [.]						
Txt	nnnnn	92	2	3			 80	96	
Txt	nnnnn	106	3	4	5	6	 81	110	
Txt	nnnnn	111	4	5	6	7	 82	115	
Txt	nnnnn	116		6	7	8	 83	120	
Txt	nnnnn	121	6	7	8	9	 84	125	
							 		Calculations
Txt	nnnnn	544	149	150	151		 227	548	
Txt	nnnnn	548	150	151	152		 228	552	
Txt	nnnnn	554	151		153	154	 229	558	
Txt	nnnnn	174				155		178	
Txt	nnnnn	176				156		180	
Totals:									
				Calc	ulatior	is:			
		Purch							

The manual selection shown above would include the cells coloured with red:

			-						
				Calc	ulation	IS:			
Totals:									
Txt	nnnnn	176				156		180	
Txt	nnnnn	174				155		178	
Txt	nnnnn	554	151		153	154	 229	558	
Txt	nnnnn	548	150	151	152		 228	552	
Txt	nnnnn	544	149	150	151		 227	548	
							 		Calculations
Txt	nnnnn	121	6	7	8	9	 84	125	
Txt	nnnnn	116		6	7	8	 83	120	
Txt	nnnnn	111	4	5	6	7	 82	115	
Txt	nnnnn	106	3	4	5	6	 81	110	
Txt	nnnnn	92	2	3			 80	96	
		Tah	le [.]						
ndustry / Consgr.			nn	nn	nn	nn	 		
Transaction code		1000	nnnn	nnnn	nnnn	nnnn	 nnnn	Total	
		Bridge column	Txt	Txt	Txt	Txt	 Txt	Uses	

If instead the same cells are manually coloured red and a red cell is selected: Pressing the button "Select cells marked with colour" will expand the selection to include the cells shown below:

2010									
		Bridge column	Txt	Txt	Txt	Txt	 Txt	Uses	
Transaction code		1000	nnnn	nnnn	nnnn	nnnn	 nnnn	Total	
ndustry / Consgr.			nn	nn	nn	nn			
		Tat	ole:						
Txt	nnnnn	92	2	3			 80	127	
Txt	nnnnn	106	3	4	5	6	 81	141	
Txt	nnnnn	111	4	5	6	7	 82	146	
Txt	nnnnn	116		6	7	8	 83	151	
Txt	nnnnn	121	6	7	8	9	 84	156	
							 		Calculation
Txt	nnnnn	544	149	150	151		 227	579	
Txt	nnnnn	548	150	151	152		 228	583	
Txt	nnnnn	554	151		153	154	 229	589	
Txt	nnnnn	174				155		209	
Txt	nnnnn	176				156		211	
Totals:							 		
				Calc	ulatior	ns:			
		Purch							