

Online appendix for

“Domestic Value-added in China's Exports and its Distribution by Firm Ownership”

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Appendix A: Expressions for element matrices/vectors in equation (6).

$$B^{CCN} = [I - A^{CCN} - A^{CFN} (I - A^{FFN})^{-1} A^{FCN}]^{-1} \quad (A1)$$

$$B^{CCP} = [A^{CCP} + A^{CFN} (I - A^{FFN})^{-1} A^{FCP}] [I - A^{CCN} - A^{CFN} (I - A^{FFN})^{-1} A^{FCN}]^{-1} \quad (A2)$$

$$B^{CFN} = A^{CFN} (I - A^{FFN})^{-1} [I - A^{CCN} - A^{CFN} (I - A^{FFN})^{-1} A^{FCN}]^{-1} \quad (A3)$$

$$B^{CFP} = [A^{CFP} + A^{CFN} (I - A^{FFN})^{-1} A^{FFP}] [I - A^{CCN} - A^{CFN} (I - A^{FFN})^{-1} A^{FCN}]^{-1} \quad (A4)$$

$$B^{FCN} = A^{FCN} (I - A^{CCN})^{-1} [I - A^{FFN} - A^{CFN} (I - A^{CCN})^{-1} A^{FCN}]^{-1} \quad (A5)$$

$$B^{FCP} = [A^{FCP} + A^{CCP} (I - A^{CCN})^{-1} A^{FCN}] [I - A^{FFN} - A^{CFN} (I - A^{CCN})^{-1} A^{FCN}]^{-1} \quad (A6)$$

$$B^{FFN} = [(I - A^{FFN} - A^{CFN} (I - A^{CCN})^{-1} A^{FCN})^{-1}] \quad (A7)$$

$$B^{FFP} = [A^{FFP} + A^{CFP} (I - A^{CCN})^{-1} A^{FCN}] [I - A^{FFN} - A^{CFN} (I - A^{CCN})^{-1} A^{FCN}]^{-1} \quad (A8)$$

From equation (4) and using equations (A1)-(A4) we can obtain:

$$\begin{aligned} X^{CN} &= B^{CCN} (Y^C + E^{CN}) + B^{CCP} E^{CP} + B^{CFN} (Y^F + E^{FN}) + B^{CFP} E^{FP} \\ &= B^{CCN} (Y^C + E^{CN}) + [A^{CCP} + A^{CFN} (I - A^{FFN})^{-1} A^{FCP}] B^{CCN} E^{CP} \\ &\quad + A^{CFN} (I - A^{FFN})^{-1} B^{CCN} (Y^F + E^{FN}) + [A^{CFP} + A^{CFN} (I - A^{FFN})^{-1} A^{FFP}] B^{CCN} E^{FP} \end{aligned} \quad (A9)$$

From equation (4) and using equations (A5)-(A8) we can obtain:

$$\begin{aligned} X^{FN} &= B^{FCN} (Y^C + E^{CN}) + B^{FCP} E^{CP} + B^{FFN} (Y^F + E^{FN}) + B^{FFP} E^{FP} \\ &= A^{FCN} (I - A^{CCN})^{-1} B^{FFN} (Y^C + E^{CN}) + [A^{FCP} + A^{CCP} (I - A^{CCN})^{-1} A^{FCN}] B^{FFN} E^{CP} \\ &\quad + B^{FFN} (Y^F + E^{FN}) + [A^{FFP} + A^{CFP} (I - A^{CCN})^{-1} A^{FCN}] B^{FFN} E^{FP} \end{aligned} \quad (A10)$$

Substituting equations (A9) and (A10) into equation (3) and collect same terms:

$$\begin{aligned} M - Y^M &= A^{MCN} X^{CN} + A^{MCP} X^{CP} + A^{MFN} X^{FN} + A^{MFP} X^{FP} \\ &= [A^{MCN} B^{CCN} + A^{MFN} A^{FCN} (I - A^{CCN})^{-1} B^{FFN}] (Y^C + E^{CN}) \\ &\quad + [A^{MCN} A^{CFN} (I - A^{FFN})^{-1} B^{CCN} + B^{MFN}] (Y^F + E^{FN}) \\ &\quad + \{A^{MCN} [A^{CCP} + A^{CFN} (I - A^{FFN})^{-1} A^{FCP}] B^{CCN} + A^{MFN} [A^{FCP} + A^{CCP} (I - A^{CCN})^{-1} A^{FCN}] B^{FFN} + A^{MCP}\} E^{CP} \\ &\quad + \{A^{MCN} [A^{CFP} + A^{CFN} (I - A^{FFN})^{-1} A^{FFP}] B^{CCN} + A^{MFN} [A^{FFP} + A^{CFP} (I - A^{CCN})^{-1} A^{FCN}] B^{FFN} + A^{MFP}\} E^{FP} \end{aligned} \quad (A11)$$

Appendix B: Data Appendix

Our major datasets include the ASIP data, the Customs export and import data, and the BOP table from the People's Bank of China:

1. *The ASIP data*

The ASIP data, developed and maintained by the National Bureau of Statistics of China (NBS), provide production side information. The data contains annual survey data of production and balance sheet information for all "above-scale" industrial firms in China. The data surveyed firms in industrial sector (i.e., manufacturing, mining, and utility) with non-SOEs with sales over 5 million RMB and all SOEs. As noted by Cai and Liu (2009), designed for computing the GDP, the information reported in this dataset should be quite reliable, because the NBS has implemented standard procedures and has strict double checking procedures for above-scale firms. Moreover, firms do not have clear incentives to misreport their information because such information cannot be used against them by other government agencies such as the tax authorities. Based on the General Accepted Accounting Principles, we follow Cai and Liu (2009) to rule out outliers and delete the following kinds of observations from the original data set:

- (a). firms that reporting "not-in-operation" status;
- (b). observations whose information on critical parameters (such as total assets, the number of employees, gross value of industrial output, net value of fixed assets, or sales) is missing;
- (c). misclassified observations whose operation scales are clearly smaller than the classification standard of above scale firms, specifically, observations for which one of the following is true:
 - (i). the value of fixed assets is below RMB 10 million;
 - (ii). the value of total sales is below RMB 10 million; and
 - (iii). the number of employees is less than 10;
- (d). observations that have a negative value for one of the following variables:
 - (i). total assets minus liquid assets;
 - (ii). total assets minus total fixed assets;
 - (iii). total assets minus net value of fixed assets; or
- (iv). accumulated depreciation minus current depreciation;

(e). observations with extreme variable values (the values of key variables are either larger than the 99.5 percentile or smaller than the 0.5 percentile).

2. The Customs data on export and import

The firm-level trade data is compiled and maintained by the General Administration of Customs of China. It records annual import and export data for all merchandise trade from 2000 to 2007. The dataset contains value and quantity information for each exporter and importer, at 8 digit HS product level, to/from each country. It also keeps records of trade regimes such as processing versus normal trade.

3. Main procedures for matching the ASIP with the Customs data:

- A. Use the universe of import data (with firm ID, HS8), and match with the IO industry, get info about each importer importing one or multiple IO inputs;
- B. Match exporter (from customs) with producer (from ASIP); Aggregate it to the level of IO sector, so we know for each IO sector the total gross output and the total export in processing and nonprocessing trade;
- C. Match the importer information with producers/exporters; Aggregate it to the level of IO sector, so we know for each IO sector the total import value in processing and ordinary inputs, as well as capital goods and final consumption;
- D. Aggregate firm information to the IO level, then we get the IO matrix that match imported intermediate input to output and export by IO sector.
- E. The matched sample also provides information on (1). imported input intensity by different types of firms; (2). capital share of foreign investors as a proxy for foreign investment benefit.
- F. The matching efficiency is described in the table below:

Table B1: matching efficiency

Matching success ratio in value of						
Year	processing export	total export	ordinary imported input	processing imported input	imported capital and final consumption	total output
2000	36.3%	49.5%	8.8%	35.0%	11.1%	29.2%
2001	37.0%	52.2%	9.5%	35.8%	10.8%	30.1%
2002	35.0%	53.0%	11.2%	32.3%	9.8%	31.8%
2003	32.5%	51.1%	10.8%	30.1%	9.3%	31.8%
2004	33.8%	57.5%	10.8%	33.1%	12.1%	33.3%
2005	32.6%	55.7%	11.0%	32.2%	10.5%	35.0%
2006	31.7%	58.9%	11.2%	31.0%	9.1%	33.8%
2007	29.3%	54.9%	9.5%	28.6%	9.8%	31.2%

4. Foreign Income Data

The Sector Level Income Table in Balance of Payment provided by the People's Bank of China (PBC) reports investment income and employee compensation for 97 sectors, for both income and expenditure. Our calculation uses the expenditure items. Foreign investment takes the lion's share, accounting for nearly 95% in total foreign factor income.

Based on the matched sample of ASIP and Customs data, we can estimate the foreign share in total paid-in capital for all four types of firms (CP, FP, CN, and FN). Multiplying those shares with operation surplus gives the foreign capital income in domestic value-added. For non-industry sectors, first we use the share of foreign direct investment income relative to total fixed capital as an initial measure of foreign capital income share. With foreign share in registered capital, as reported in the China Statistic Yearbooks, we obtain the initial measures of foreign capital income share for FP and FN.

Under the hypothesis that the foreign employee only work for foreign firms, we split compensation to foreign employees in the sector level income into the FP and FN's foreign employee compensation according to the proportion of total employee compensation for FP and FN.

Appendix C:

Table C1 Mean Comparison across 4 types of firms (manufacture sectors in 42 sectors)

Comparison of Row Mean - Column Mean	Imported input over input			Imported input over output		
	CP	FP	CN	CP	FP	CN
all sector:						
FP	0.291			0.184		
CN	-0.141	-0.433		-0.101	-0.285	
FN	-0.107	-0.399	0.034	-0.076	-0.259	0.025
sector 6						
FP	0.083			0.059		
CN	-0.206	-0.289		-0.143	-0.202	
FN	-0.198	-0.281	0.008 [#]	-0.137	-0.196	0.006 [#]
sector 7						
FP	0.247			0.160		
CN	-0.087	-0.334		-0.064	-0.224	
FN	-0.081	-0.327	0.006 [#]	-0.059	-0.219	0.005 [#]
sector 8						
FP	0.451			0.249		
CN	-0.161	-0.613		-0.102	-0.351	
FN	-0.158	-0.609	0.004 [#]	-0.100	-0.348	0.002 [#]
sector 9						
FP	0.085			0.03 [#]		
CN	-0.216	-0.301		-0.171	-0.200	
FN	-0.201	-0.286	0.015 [#]	-0.159	-0.188	0.012 [#]
sector 10						
FP	0.222			0.133		
CN	-0.125	-0.347		-0.085	-0.219	
FN	-0.103	-0.325	0.02 [#]	-0.070	-0.203	0.016 [#]
sector 11						
FP	0.20 [#]			0.21063		
CN	-0.10 [#]	-0.3		-0.073 [#]	-0.284	
FN	-0.05 [#]	-0.249	0.05 [#]	-0.034 [#]	-0.245	0.039 [#]
sector 12						
FP	0.298			0.198		
CN	-0.163	-0.460		-0.119	-0.317	
FN	-0.102	-0.400	0.061	-0.075	-0.273	0.044
sector 13						
FP	0.093			0.070		
CN	-0.162	-0.255		-0.113	-0.183	
FN	-0.134	-0.226	0.029	-0.093	-0.163	0.020
sector 14						
FP	0.458			0.333		
CN	-0.174	-0.632		-0.139	-0.471	

FN	-0.132	-0.590	0.042 [#]		-0.106	-0.438	0.033 [#]
sector 15							
FP	0.227				0.133		
CN	-0.085	-0.312			-0.082	-0.215	
FN	-0.053 [#]	-0.281	0.032		-0.058	-0.191	0.023
sector 16							
FP	0.257				0.163		
CN	-0.066	-0.322			-0.050	-0.213	
FN	-0.001 [#]	-0.258	0.065		-0.004 [#]	-0.167	0.046
sector 17							
FP	0.332				0.234		
CN	-0.06 [#]	-0.392			-0.044 [#]	-0.278	
FN	0.029	-0.303	0.09 [#]		0.027 [#]	-0.207	0.071
sector 18							
FP	0.278				0.197		
CN	-0.089	-0.366			-0.063	-0.260	
FN	-0.053 [#]	-0.331	0.036 [#]		-0.037 [#]	-0.234	0.026
sector 19							
FP	0.357				0.242		
CN	-0.191	-0.548			-0.136	-0.378	
FN	-0.133	-0.490	0.058 [#]		-0.092	-0.335	0.043 [#]
sector 20							
FP	0.253				0.184		
CN	-0.161	-0.414			-0.102	-0.285	
FN	-0.10 [#]	-0.353	0.06 [#]		-0.06 [#]	-0.245	0.04 [#]
sector 21							
FP	0.188				0.118		
CN	-0.144	-0.332			-0.095	-0.213	
FN	-0.138	-0.326	0.006 [#]		-0.091	-0.209	0.004 [#]

Note numbers ending with # are not significant.

Table C2: Trade share parameters used in estimation (Share, 2007)

IO Code	Intermediates importsfor				Capital goods for				Imports for final Consumption	Exports			
	Processing		Non-processing		Processing		Non-processing			Processing		Non-processing	
	COEs	FIEs	COEs	FIEs	COEs	FIEs	COEs	FIEs		COEs	FIEs	COEs	FIEs
1	3.68	3.73	39.55	44.63	0.00	0.00	0.00	0.00	8.41	0.00	0.00	79.07	20.93
2	15.69	15.49	63.36	5.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.71	10.29
3	11.93	18.75	61.03	5.80	1.81	0.22	0.00	0.00	0.47	0.00	0.00	77.83	22.17
4	5.55	7.42	0.47	0.64	0.00	0.00	0.00	0.00	85.91	0.00	0.00	71.47	28.53
5	14.11	0.14	84.33	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.63	19.37
6	0.00	0.00	95.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.97	0.03
7	5.74	2.77	86.81	4.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.85	80.15
8	0.00	0.00	92.89	7.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.86	2.14
9	3.59	0.73	72.84	22.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.78	4.22
10	7.58	37.67	41.30	13.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.65	26.35

11	1.96	10.63	25.08	12.48	0.00	0.00	0.00	0.00	49.85	1.19	10.67	35.02	53.13
12	0.02	1.89	66.31	28.48	0.00	0.00	0.00	0.00	3.29	0.36	6.48	56.56	36.60
13	1.51	1.19	52.02	40.94	0.00	0.00	0.00	0.00	4.33	6.69	31.32	25.95	36.04
14	3.44	10.07	62.89	6.70	0.00	0.00	0.00	0.00	16.90	12.81	8.88	52.57	25.73
15	2.08	7.29	19.04	9.69	0.00	0.00	0.00	0.00	61.91	1.46	12.16	65.48	20.89
16	23.55	35.30	20.09	4.52	0.00	0.00	0.00	0.00	16.53	17.70	28.51	30.51	23.29
17	18.72	26.81	18.00	6.97	0.00	0.00	0.00	0.00	29.49	2.41	6.38	50.28	40.93
18	0.36	11.14	11.31	0.00	0.00	0.00	0.00	0.00	77.19	3.42	26.09	32.83	37.66
19	0.05	0.88	37.02	24.13	0.00	0.00	0.00	0.00	37.92	0.15	8.48	39.91	51.45
20	10.48	42.82	2.79	6.33	0.00	0.00	0.00	0.00	37.58	1.10	16.83	34.39	47.68
21	1.27	5.40	7.62	14.04	0.00	0.00	0.00	0.00	71.66	7.85	15.41	41.60	35.13
22	0.02	0.48	0.38	0.70	0.00	0.00	0.00	0.00	98.42	1.03	7.62	59.36	31.99
23	0.55	5.76	5.79	8.65	0.00	0.00	0.00	0.00	79.24	13.80	16.94	39.83	29.44
24	0.00	0.16	0.40	0.00	0.00	0.00	0.00	0.00	99.43	0.43	0.89	98.68	0.00
25	23.97	66.38	5.89	3.72	0.00	0.00	0.00	0.00	0.04	10.20	11.42	63.57	14.81
26	15.17	58.22	19.81	6.64	0.00	0.00	0.00	0.00	0.16	11.15	28.66	42.07	18.11
27	23.02	41.53	23.81	11.63	0.00	0.00	0.00	0.00	0.01	3.78	6.07	80.80	9.35
28	10.30	59.37	8.11	18.92	0.00	0.00	0.00	0.00	3.30	7.85	12.83	58.75	20.57
29	19.28	65.17	1.85	3.21	0.00	0.00	0.00	0.00	10.49	3.43	12.21	70.68	13.68
30	8.39	49.12	0.01	0.01	0.00	0.00	0.00	0.00	42.47	8.21	21.44	54.91	15.43
31	14.93	56.33	10.69	10.80	0.00	0.00	0.00	0.00	7.25	8.34	28.38	47.33	15.94
32	9.44	36.60	42.72	10.97	0.00	0.00	0.00	0.00	0.27	5.23	10.85	61.67	22.25
33	0.66	7.62	14.62	41.61	3.01	2.38	0.06	0.36	29.68	3.98	30.18	40.03	25.81
34	6.24	21.50	36.03	31.05	0.00	0.00	0.00	0.00	5.18	9.89	50.90	25.20	14.00
35	9.54	50.36	9.32	13.46	0.00	0.00	0.00	0.00	17.32	9.93	29.10	45.60	15.36
36	7.09	62.97	2.68	4.15	1.57	0.27	1.36	2.60	17.30	12.26	53.89	22.78	11.08
37	1.38	0.93	85.22	12.20	0.27	0.00	0.00	0.00	0.01	32.11	18.51	39.81	9.57
38	0.36	0.22	92.73	6.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.57	11.43
39	5.68	14.13	43.13	37.07	0.00	0.00	0.00	0.00	0.00	7.65	8.30	65.59	18.46
40	0.16	0.09	90.19	9.56	0.00	0.00	0.00	0.00	0.00	12.87	0.09	77.77	9.27
41	0.07	0.46	0.00	0.00	0.00	0.00	0.00	0.00	99.47	3.00	2.37	77.68	16.94
42	6.26	35.57	30.99	27.12	0.00	0.00	0.00	0.00	0.04	1.36	18.77	51.35	28.52
43	16.03	42.83	24.11	17.03	0.00	0.00	0.00	0.00	0.00	12.13	55.60	21.78	10.50
44	4.16	39.14	24.66	31.52	0.00	0.00	0.00	0.00	0.52	3.14	28.03	48.86	19.97
45	2.35	13.55	30.36	28.93	0.00	0.00	0.00	0.00	24.81	3.42	26.53	45.27	24.78
46	1.26	9.27	14.03	26.91	0.00	0.00	0.00	0.00	48.52	4.86	9.02	63.95	22.17
47	15.95	34.48	30.72	18.84	0.00	0.00	0.00	0.00	0.01	19.79	34.61	32.75	12.85
48	2.63	25.05	30.45	38.70	0.00	0.00	0.00	0.00	3.18	19.55	32.29	38.60	9.56
49	6.22	58.00	10.48	18.01	0.00	0.00	0.00	0.00	7.29	11.69	39.99	33.66	14.66
50	0.43	8.30	37.42	53.85	0.00	0.00	0.00	0.00	0.00	0.09	2.72	69.53	27.66
51	5.56	10.57	66.98	16.89	0.00	0.00	0.00	0.00	0.00	4.04	33.83	41.41	20.72
52	10.03	25.16	40.85	23.96	0.00	0.00	0.00	0.00	0.00	2.32	12.10	70.31	15.27
53	5.20	68.23	6.19	18.84	0.00	0.00	0.00	0.00	1.54	3.56	34.82	42.75	18.88
54	2.08	31.02	33.80	28.46	0.00	0.00	0.00	0.00	4.64	0.78	7.65	67.21	24.37
55	2.03	17.99	33.57	46.41	0.00	0.00	0.00	0.00	0.00	0.55	8.84	46.19	44.41
56	7.19	34.11	24.64	33.56	0.00	0.00	0.00	0.00	0.51	1.20	10.14	73.58	15.07
57	0.22	7.71	70.60	21.47	0.00	0.00	0.00	0.00	0.00	0.57	0.48	75.10	23.84
58	0.10	3.32	19.22	77.36	0.00	0.00	0.00	0.00	0.00	0.00	0.18	92.91	6.91
59	7.36	41.91	26.60	24.13	0.00	0.00	0.00	0.00	0.00	4.81	3.48	72.55	19.16
60	16.40	0.32	59.90	23.39	0.00	0.00	0.00	0.00	0.00	0.12	0.29	91.10	8.49
61	14.07	23.36	45.34	17.24	0.00	0.00	0.00	0.00	0.00	6.44	12.19	72.24	9.13

62	12.72	56.05	14.03	17.21	0.00	0.00	0.00	0.00	0.00	9.70	20.80	50.89	18.61
63	5.35	36.84	19.52	27.71	1.41	1.51	0.40	5.51	1.76	2.95	29.77	47.73	19.56
64	12.84	6.39	27.16	23.51	10.98	11.47	3.37	4.08	0.20	7.27	17.73	56.48	18.52
65	0.11	2.18	5.23	5.28	25.19	5.57	2.88	53.57	0.00	0.87	15.16	62.72	21.24
66	0.00	0.00	0.00	0.00	36.36	14.67	9.41	39.56	0.00	9.30	40.77	30.57	19.36
67	1.76	9.59	22.10	18.89	20.57	11.71	4.94	10.43	0.00	1.54	21.78	45.99	30.70
68	3.73	17.36	18.16	25.27	12.64	4.66	1.62	16.52	0.04	4.98	23.62	50.99	20.41
69	0.97	6.82	19.32	16.16	34.82	6.91	0.46	14.53	0.00	4.93	7.45	65.51	22.11
70	0.03	1.64	0.92	1.94	15.17	17.04	4.22	59.05	0.00	2.51	16.78	45.30	35.41
71	0.04	3.85	5.32	7.86	47.78	20.26	0.00	6.15	8.74	6.37	15.77	57.34	20.52
72	1.20	16.03	4.93	4.77	28.33	5.03	1.97	36.36	1.38	6.65	49.20	29.60	14.56
73	1.72	0.18	60.40	7.98	27.96	1.77	0.00	0.00	0.00	32.43	4.55	55.34	7.68
74	0.45	1.85	9.90	40.13	4.46	0.53	0.15	0.19	42.36	5.21	18.25	53.06	23.48
75	3.03	3.21	5.15	2.81	25.11	6.16	3.45	50.58	0.50	68.67	18.02	11.01	2.30
76	1.07	2.56	3.05	7.63	67.96	16.46	0.00	0.00	1.27	4.86	23.14	48.15	23.85
77	2.39	9.43	10.28	8.87	26.72	15.53	7.96	18.83	0.00	13.84	34.07	35.59	16.50
78	3.70	35.75	14.17	22.59	7.08	5.82	1.02	9.87	0.00	10.40	63.52	16.20	9.87
79	6.31	53.78	12.34	22.96	0.82	1.56	0.15	1.74	0.34	8.71	56.80	22.18	12.30
80	1.60	14.27	10.84	14.65	15.76	7.82	2.04	28.15	4.86	16.43	47.62	22.30	13.65
81	3.32	62.22	6.79	11.36	6.50	1.41	0.82	6.57	1.00	5.85	35.36	38.90	19.89
82	1.73	40.91	13.67	23.07	1.09	11.10	0.19	8.17	0.08	4.95	78.19	8.49	8.38
83	1.69	22.28	0.29	1.56	20.53	22.27	8.58	22.60	0.21	9.47	73.19	12.01	5.34
84	1.38	31.39	2.28	7.67	18.26	13.20	2.72	23.10	0.00	5.16	89.57	3.74	1.52
85	5.05	71.97	9.89	8.98	0.48	0.45	0.25	2.66	0.28	3.36	79.73	6.81	10.09
86	7.35	64.31	4.13	8.46	0.77	4.31	0.92	0.48	9.28	15.52	75.50	6.21	2.76
87	0.00	0.00	0.00	0.00	41.45	17.94	2.59	38.02	0.00	9.97	70.65	14.36	5.03
88	1.35	14.13	1.34	2.63	11.74	8.56	5.54	53.97	0.75	8.76	72.58	11.80	6.86
89	1.88	51.18	7.14	10.86	2.11	2.99	0.06	1.32	22.45	9.13	81.38	5.81	3.67
90	20.22	49.68	1.67	7.38	0.15	0.13	0.00	0.01	20.77	11.83	24.46	46.46	17.25
91	1.82	9.04	63.49	25.65	0.00	0.00	0.00	0.00	0.00	0.42	6.09	73.81	19.68
92	0.00	0.00	99.03	0.97	0.00	0.00	0.00	0.00	0.00	0.00	40.98	29.49	29.52
130	4.38	49.63	0.00	0.00	0.00	0.00	0.00	0.00	45.98	15.01	67.15	11.62	6.22

Note: based on 135 sectors I-O table, merchandise only

Table C3 Share of Foreign factors income in Domestic Value added of exports, 2007

Sector	CP	FP	CN	FN	Sector	CP	FP	CN	FN
01	0.00%	0.00%	0.21%	4.02%	22	2.43%	95.69%	0.76%	95.44%
02	0.00%	0.00%	0.03%	34.55%	23	0.00%	37.71%	2.82%	37.71%
03	0.00%	0.00%	0.55%	55.12%	24	0.00%	0.00%	2.27%	30.47%
04	1.14%	44.81%	0.39%	44.69%	25	0.00%	0.00%	1.86%	24.87%
05	1.06%	41.75%	0.31%	42.71%	26	0.00%	0.00%	4.19%	27.65%
06	3.66%	34.79%	0.89%	37.16%	27	0.00%	0.00%	0.96%	37.64%
07	2.28%	39.98%	1.00%	40.05%	28	0.00%	0.00%	0.21%	7.95%
08	0.80%	32.21%	0.91%	31.95%	29	0.00%	0.00%	3.86%	74.91%
09	0.98%	38.08%	0.42%	38.64%	30	0.00%	0.00%	5.02%	43.00%
10	1.06%	42.66%	0.48%	41.88%	31	0.00%	0.00%	4.49%	48.78%

11	1.06%	40.33%	0.50%	42.15%	32	0.00%	0.00%	6.78%	48.58%
12	0.12%	50.29%	1.31%	49.47%	33	0.00%	0.00%	4.36%	62.77%
13	1.08%	42.51%	0.57%	41.75%	34	0.00%	0.00%	25.07%	49.30%
14	0.71%	46.44%	1.00%	46.01%	35	0.00%	0.00%	3.20%	33.13%
15	1.87%	45.92%	0.44%	45.20%	36	0.00%	0.00%	3.28%	33.77%
16	1.17%	42.67%	0.62%	41.25%	37	0.00%	0.00%	0.11%	66.14%
17	0.88%	35.31%	0.62%	35.08%	38	0.00%	0.00%	5.36%	55.32%
18	3.34%	49.40%	1.16%	48.31%	39	0.00%	0.00%	0.03%	43.47%
19	0.79%	46.54%	1.92%	46.03%	40	0.00%	0.00%	0.28%	26.03%
20	1.03%	40.83%	0.42%	40.72%	41	1.35%	35.06%	1.35%	35.06%
21	0.85%	33.99%	0.87%	33.90%	42	0.00%	0.00%	0.00%	43.49%

Table C4 Sensitivity test at Sector level (%), 93 sectors (merchandise sectors only)

IO Code	Direct DVA				Total DVA			
	benchmark	alternative 1	alternative 2	alternative 3	benchmark	alternative 1	alternative 2	alternative 3
1	67.38	67.38	67.38	67.38	93.89	94.14	93.92	94.15
2	69.76	69.76	69.76	69.76	93.72	93.25	93.86	93.30
3	50.04	50.04	50.04	50.04	93.77	94.16	93.75	94.16
4	63.49	63.49	63.49	63.49	93.92	93.43	94.02	93.46
5	49.07	49.07	49.07	49.07	90.29	89.82	90.47	89.88
6	46.07	46.07	46.07	46.07	91.70	91.39	91.78	91.41
7	69.02	69.02	69.02	69.02	89.67	89.61	89.67	89.63
8	33.22	33.22	33.22	33.22	82.75	81.98	82.95	82.05
9	38.07	38.07	38.07	38.07	84.95	84.27	85.17	84.33
10	41.07	41.07	41.07	41.07	86.01	85.63	86.14	85.68
11	17.66	17.65	17.72	17.63	84.13	76.47	83.73	76.14
12	15.88	15.88	15.88	15.88	85.95	82.78	85.95	82.65
13	15.61	15.53	19.09	15.41	74.93	74.48	76.00	74.21
14	19.49	19.48	19.50	19.49	80.40	80.38	80.54	80.43
15	15.10	15.06	15.02	14.97	88.54	88.74	88.44	88.69
16	18.51	17.53	16.60	17.98	63.15	61.94	62.41	62.12
17	15.98	15.96	15.96	15.94	85.57	82.01	85.51	81.85
18	17.32	17.28	17.30	17.23	78.37	77.68	78.63	77.73
19	19.17	19.17	19.18	19.17	81.27	80.68	81.68	80.75
20	18.35	18.34	18.35	18.34	79.55	78.01	79.97	78.02
21	21.42	20.67	20.72	20.22	79.94	80.03	79.63	79.73
22	31.70	31.69	31.70	31.69	85.44	84.96	85.62	84.96
23	20.39	19.97	19.99	19.84	78.69	78.89	78.75	78.86
24	63.39	63.39	63.39	63.39	94.08	94.16	94.09	94.16
25	17.29	16.53	15.91	15.99	76.73	77.70	75.50	80.17
26	17.32	16.36	15.29	15.24	77.66	77.84	76.65	77.36

27	17.55	17.54	17.56	17.54	84.83	84.90	85.03	84.95
28	21.49	21.10	20.15	20.31	81.20	80.51	81.02	79.66
29	21.72	21.69	21.07	21.50	81.45	81.11	81.93	80.75
30	23.34	23.21	20.64	24.61	74.34	76.02	74.32	77.95
31	19.98	19.53	17.37	20.28	71.10	72.41	69.59	72.93
32	21.32	20.91	20.33	20.55	80.23	80.71	79.72	80.59
33	24.01	23.70	22.11	22.88	71.57	72.22	71.28	71.29
34	18.22	17.58	13.75	14.12	64.58	70.65	59.94	68.23
35	28.15	25.70	25.43	28.87	79.04	78.87	77.37	80.20
36	22.09	21.58	21.24	21.19	56.40	52.77	59.63	52.39
37	11.31	10.81	9.70	11.72	45.52	49.56	43.53	50.70
38	32.11	32.11	32.11	32.11	88.83	88.47	88.88	88.50
39	20.82	20.54	20.66	19.90	73.47	75.15	72.75	74.57
40	17.31	17.17	17.08	17.15	78.29	78.52	78.39	78.49
41	16.77	16.77	16.77	16.77	73.21	72.69	73.58	72.80
42	16.24	15.72	15.44	19.09	73.13	72.67	72.77	74.01
43	16.00	15.14	11.23	9.43	47.58	51.25	42.77	46.41
44	15.29	15.09	14.52	14.71	68.47	70.00	67.79	70.05
45	24.68	22.32	21.54	43.00	76.30	76.00	74.90	84.09
46	27.75	27.18	27.67	28.42	82.88	83.89	82.69	84.48
47	14.61	13.90	10.58	10.21	59.72	64.14	56.45	61.42
48	18.29	17.28	14.23	14.88	53.83	54.31	50.22	51.77
49	17.29	16.35	14.59	17.80	52.45	54.60	49.98	56.08
50	27.24	27.24	27.24	27.24	86.23	85.82	86.43	85.88
51	17.38	17.36	17.42	17.44	74.33	74.45	74.36	74.52
52	22.16	22.10	22.13	22.69	82.22	82.05	82.32	82.35
53	25.48	25.00	23.16	21.80	70.83	72.45	68.71	69.92
54	26.20	26.14	26.25	26.20	81.11	80.62	81.35	80.71
55	40.15	40.14	40.15	40.14	82.51	82.13	82.65	82.18
56	27.95	27.94	28.03	27.94	82.48	82.03	82.70	82.09
57	18.83	18.83	18.83	18.83	75.73	75.35	75.80	75.34
58	27.67	27.67	27.67	27.67	81.16	80.99	81.27	81.01
59	16.72	16.31	16.20	16.96	75.23	76.19	74.80	76.82
60	26.12	26.12	26.12	26.12	77.54	76.59	77.76	76.68
61	15.42	15.05	15.48	14.79	71.39	72.64	71.35	72.58
62	20.81	19.99	18.04	18.35	68.98	71.91	66.11	71.07
63	20.10	19.93	18.62	17.82	66.88	68.35	65.66	66.04
64	21.07	20.81	21.16	20.79	75.31	75.63	75.43	75.60
65	22.49	22.35	22.49	23.89	78.42	77.72	78.65	78.36
66	16.90	16.57	16.71	16.97	65.88	68.94	65.82	69.05
67	22.21	22.13	21.13	21.65	73.46	75.29	72.24	74.65
68	21.66	21.34	20.40	22.42	73.52	75.74	72.27	76.33
69	21.65	21.36	21.31	21.77	79.70	79.22	79.73	79.42
70	24.08	23.33	23.47	23.90	79.32	78.03	79.25	78.23
71	18.35	18.32	18.38	18.44	76.21	75.65	76.45	75.76
72	25.00	24.65	28.04	24.79	57.72	57.99	62.10	57.91
73	15.92	16.24	15.86	16.22	71.90	71.38	72.27	71.52

74	18.23	17.86	21.21	26.00	73.45	75.04	75.73	79.01
75	27.86	23.82	24.07	17.39	50.06	65.70	56.83	64.82
76	18.70	18.54	19.01	18.76	71.61	72.99	71.81	72.97
77	18.38	17.34	14.54	17.52	62.93	64.62	60.05	64.81
78	16.87	16.28	16.06	16.04	40.42	41.49	40.73	41.39
79	13.13	12.53	7.07	8.19	46.95	51.51	41.45	47.18
80	15.12	14.66	11.15	13.51	46.38	47.06	44.65	45.96
81	20.07	19.76	17.32	19.83	61.52	62.31	58.84	62.42
82	13.61	13.50	8.94	12.05	39.56	35.31	41.29	34.87
83	15.13	15.07	13.74	15.24	40.06	37.34	43.57	37.13
84	13.73	13.62	7.44	10.97	42.54	39.18	43.00	38.26
85	18.47	18.24	8.32	22.56	31.42	34.01	24.95	38.13
86	15.95	15.27	8.79	14.18	30.34	27.26	31.24	26.13
87	22.89	22.55	18.44	23.53	64.42	66.11	62.00	66.47
88	24.12	23.61	23.08	23.08	43.19	41.96	44.47	41.34
89	13.92	13.58	11.54	13.31	33.08	28.46	37.94	28.15
90	25.15	24.00	22.53	23.20	72.56	73.04	70.88	72.68
91	75.63	75.63	75.63	75.63	92.22	92.36	92.23	92.37
92	21.29	21.07	31.65	20.90	71.22	73.09	75.25	73.02
130	28.96	28.86	29.09	28.82	72.30	74.74	72.18	74.65
Total	19.33	18.94	16.53	18.60	59.17	59.06	58.94	59.00

Note: based on 135 sectors I-O table.