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APPENDICES

Table A.1: Hoekman (1995) openness indices for some business services in South Africa

	1994					1995					1997					1998																			
	Market access				National treatment	Market access				National treatment	Market access				National treatment	Market access				National treatment															
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.										
1. BUSINESS SERVICES																																			
A. Professional services																																			
(a) (i) Legal services(advisory services in foreign and international law only)	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4					
(ii) Legal services(domestic law only)	0.0	0.0	0.5	0.5	0.2	0.0	0.0	1.0	0.5	0.4	0.0	0.0	0.5	0.5	0.2	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	0.5	0.5	0.2	0.0	0.0	1.0	0.5	0.4
(b) Auditing	0.0	0.0	1.0	0.5	0.4	0.0	0.0	0.5	0.5	0.2	0.0	0.0	1.0	0.5	0.4	0.0	0.0	0.5	0.5	0.2	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	0.5	0.5	0.2
(c) Taxation services (excluding legal services)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(d) Architectural services	0.5	0.1	1.0	0.5	0.7	1.0	1.0	1.0	0.5	1.0	0.5	0.1	1.0	0.5	0.7	1.0	1.0	1.0	0.5	1.0	0.5	0.1	1.0	0.5	0.7	1.0	1.0	1.0	0.5	1.0	0.5	0.1	1.0	0.5	0.7
(e) Engineering services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(f) Integrated engineering services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(g) (i) Urban planning services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(ii) Landscape architectural services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(h) Medical and dental services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(i) Veterinary services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(j) Services provided by:																																			
(i) Midwives and nurses	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5
(ii) Physiotherapists and paramedical personnel	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4
B. Computer and related services																																			
(a) Consultancy services related to the installation of computer hardware	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(b) Software implementation services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(c) Data processing services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(d) Data base services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(e) Maintenance and repair services of office machinery and equipment including computers	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
D. Real estate services																																			
(a) Involving own or leased property	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(b) On a fee or contracting basis	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0

Source: Data from GATS commitment schedules for South Africa (World Trade Organisation, 1994b, 1995a, 1997a and 1998a), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled “W.Aver.” are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Table A.2: Hoekman (1995) openness indices for rental/leasing services and other business services in South Africa

	1994					1995					1997					1998									
	Market access			National treatment		Market access			National treatment		Market access			National treatment		Market access			National treatment						
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.					
1. BUSINESS SERVICES																									
E. Rental/leasing services without operators																									
(a) Relating to ships	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(b) Relating to aircraft	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(c) Relating to other transport equipment	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
d) Relating to other machinery and equipment	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
F. Other business services																									
(b) Market research and public opinion polling services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(c) Management consulting services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(d) Services related to management consulting	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(e) Technical testing and analysis services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(f) Services incidental to agriculture, hunting and forestry	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4
(g) Services incidental to fishing	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4
(h) Services incidental to mining	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4
(i) Services incidental to manufacturing	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4
(k) Placement and supply services of personnel	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(l) Investigation and security	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(m) Engineering related scientific and technical consulting services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(n) Maintenance and repair of equipment	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(o) Building-cleaning services	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5	0.0	1.0	1.0	0.5	0.5
(p) Photographic services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(s) Convention services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0

Source: Data from GATS commitment schedules for South Africa (World Trade Organisation, 1994b, 1995a, 1997a and 1998a), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled “W.Aver.” are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Table A.3: Hoekman (1995) openness indices for communications services; construction and related engineering services; distribution and environmental services in South Africa

	1994					1995					1997					1998																								
	Market access		National treatment			Market access		National treatment			Market access		National treatment			Market access		National treatment																						
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.																				
2. COMMUNICATION SERVICES																																								
B. Courier services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0															
C. Telecommunication services																																								
(a)-(n) Facilities based and public switched telecommunication services (telex, facsimile services, voice services, packed-switched transmission, etc)	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.0	1.0	0.0	0.5	0.1	1.0	1.0	1.0	0.5	1.0	0.0	1.0	0.0	0.5	0.1	1.0	1.0	1.0	0.5	1.0
(o) Other: (i) Paging, personal radio communication services and trunked radio system services	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.0	1.0	0.5	0.5	0.1	1.0	1.0	1.0	0.5	1.0	0.0	1.0	0.5	0.5	0.1	1.0	1.0	1.0	0.5	1.0
(ii) Mobile cellular, including mobile data	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.0	1.0	0.5	0.5	0.1	1.0	1.0	1.0	0.5	1.0	0.0	1.0	0.5	0.5	0.1	1.0	1.0	1.0	0.5	1.0
(iii) Satellite-based services	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.0	1.0	0.5	0.5	0.1	1.0	1.0	1.0	0.5	1.0	0.0	1.0	0.5	0.5	0.1	1.0	1.0	1.0	0.5	1.0
3. CONSTRUCTION AND RELATED ENGINEERING SERVICES																																								
A. General construction work for buildings	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.1	1.0	1.0	1.0	0.5	1.0	0.0	1.0	0.5	0.5	0.1	1.0	1.0	1.0	0.5	1.0
B. General construction work for civil engineering	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8
C. Installation and assembly work	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8
D. Building completion and finishing work	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8
4. DISTRIBUTION SERVICES																																								
B. Wholesale trade services	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8					
C. Retailing services	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8					
D. Franchising	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8					
6. ENVIRONMENTAL SERVICES (Consultancy services only)																																								
A. Sewage services	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8					
B. Refuse disposal services	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8					
C. Sanitation and similar services exhaust gases, noise abatement services and landscape protection	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8	0.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.8					

Source: Data from GATS commitment schedules for South Africa (World Trade Organisation, 1994b, 1995a, 1997a and 1998a), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled “W.Aver.” are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Table A.4: openness indices for financial Services; tourism and travel related Services; transport services and other services not classified elsewhere in South Africa

	1994					1995					1997					1998																								
	Market access			National treatment		Market access			National treatment		Market access			National treatment		Market access			National treatment																					
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.															
7. FINANCIAL SERVICES																																								
A. All insurance and insurance related services	0.0	1.0	0.5	0.5	0.3	0.0	1.0	1.0	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	1.0	0.5	0.7	0.5	0.0	0.5	0.5	0.5	0.5	0.0	1.0	0.5	0.7	0.0	1.0	0.5	0.5	0.3	0.0	1.0	1.0	0.5	0.5
B. Banking and other financial services (excluding insurance)	0.0	0.0	0.5	0.5	0.2	0.0	0.0	1.0	0.5	0.4	0	0.5	0.5	0.5	0.3	0	0.5	0.5	0.5	0.3	0	0.5	0.5	0.5	0.3	0	0.5	0.5	0.5	0.3	0.0	0.5	0.5	0.5	0.3	0.0	0.0	0.5	0.5	0.2
(h) Money broking	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.0	0.0	1.0	0.5	0.4	0.5	0.0	1.0	0.5	0.7	0.0	0.0	1.0	0.5	0.4
9. TOURISM AND TRAVEL RELATED SERVICES																																								
A. Hotels and restaurants (including catering)	0.0	1.0	1.0	0.5	0.9	1.0	1.0	1.0	0.5	1.0	0.0	1.0	1.0	0.5	0.9	1.0	1.0	1.0	0.5	1.0	0.0	1.0	1.0	0.5	0.9	1.0	1.0	1.0	0.5	1.0	0.0	1.0	1.0	0.5	0.9	1.0	1.0	1.0	0.5	1.0
B. Travel agencies and tour operators services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0					
C. Tourist guide services	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9					
11. TRANSPORT SERVICES																																								
F. Road transport services																																								
(a) Passenger transportation	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9					
(b) Freight transportation	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9	0.0	0.0	1.0	0.5	0.9					
(d) Maintenance and repair of road transport equipment	0.0	0.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9					
12. OTHER SERVICES NOT INCLUDED ELSEWHERE	0.0	0.0	1.0	0.5																																				
Washing, cleaning and dyeing services	0.0	0.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9					
Hairdressing and other services	0.0	0.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	0.5	0.9					

Source: Data from GATS commitment schedules for South Africa (World Trade Organisation, 1994b, 1995a, 1997a and 1998a), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled “W.Aver.” are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Table A.5: Hoekman (1995) openness indices for professional services and computer and related services in the US

	1994					1995					1997					1998														
	Market access				National treatment	Market access				National treatment	Market access				National treatment	Market access				National treatment										
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.					
1. BUSINESS SERVICES																														
A. Professional services																														
(a) Legal services: Practice as or through qualified US lawyer																														
(i) All states in the United States	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.7
(ii) Alaska	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(iii) California	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(iv) Connecticut	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(v) District	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(vi) Florida	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(vii) Georgia	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(viii) Hawaii	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(ix) Illinois	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(x) Michigan	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8
(xi) Minnesota	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(xii) New Jersey	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(xiii) New York	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(xiii) Ohio	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(xiii) Oregon	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(xiv) Texas	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8
(xv) Washington	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8	1.0	1.0	1.0	0.5	0.8
(xvi) Other states	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(b) Accounting, Auditing and bookkeeping services	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	0.5	1.0
(c) Taxation services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(d) Architectural services	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0
(e) Engineering services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(f) Integrated engineering services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0
(g) (i) Urban planning services	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0
B. Computer and related services(except airline computer reservation systems)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0

Source: Data from GATS commitment schedules for the US (World Trade Organisation, 1994d, 1995c, 1997c and 1998d), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled "W.Aver." are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10

Table A.6: Hoekman (1995) openness indices for real estate services; rental and leasing services, and other business services in the US

	1994					1995					1997					1998														
	Market access				National treatment	Market access				National treatment	Market access				National treatment	Market access				National treatment										
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.										
1. BUSINESS SERVICES																														
D. Real estate services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5	0.5	0.8
E. Rental/leasing services without operators																														
(c) Relating to other transport equipment	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(d) Relating to other machinery and equipment	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(e) Other (except harbour dredges)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
F. Other business services																														
(a) Advertising (except aerial advertising and skywriting)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(b) Market research and public opinion polling services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(c) Management consulting services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(d) Services related to management consulting	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(f) Services incidental to agriculture, hunting and forestry	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(g) Services incidental to fishing	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(h) Services incidental to mining	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(j) Services incidental to energy distribution	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(k) Placement and supply services of personnel	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0
(l) Investigation and security	1.0	1.0	0.0	0.5	0.6	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.0	0.5	0.6	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.0	0.5	0.6	1.0	1.0	1.0	0.5	1.0

Source: Data from GATS commitment schedules for the US (World Trade Organisation, 1994d, 1995c, 1997c and 1998d), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled “W.Aver.” are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Table A.7: Hoekman (1995) openness indices for other business and some communication services in the US

	1994					1995					1997					1998									
	Market access				National treatment	Market access				National treatment	Market access				National treatment	Market access				National treatment					
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.					
1. BUSINESS SERVICES																									
(m) Related scientific and technical consulting services(except land surveying for purposes of establishing legal boundaries, aerial surveying, aerial map making)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
(n) Maintenance and repair of equipment(except maritime vessels, aircraft and other transport equipment)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
(o) Building & cleaning services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
(p) Photographic services(except aerial photographic services)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
(q) Packaging services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
(r)Printing and publishing	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
(s) Convention services	1.0	1.0	1.0	0.5	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0
2. COMMUNICATION SERVICES																									
B. Land-based courier services(except any courier services involving any prior or subsequent movement by air)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
C. Telecommunication services																									
(a)-(n) Facilities based and public switched telecommunication services(telex, facsimile services, voice services,packed-switched transmission, etc)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	1.0	1.0	1.0	1.0	0.5	1.0

Source: Data from GATS commitment schedules for the US (World Trade Organisation, 1994d, 1995c, 1997c and 1998d), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled “W.Aver.” are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Table 4.8: Hoekman (1995) openness indices for some communications services; construction and related engineering services in the US

	1994					1995					1997					1998														
	Market access		National treatment			Market access		National treatment			Market access		National treatment			Market access		National treatment												
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.										
2. COMMUNICATION SERVICES																														
C. Telecommunication services																														
(o) Other: (i) Paging, personal radio communication services and trunked radio system services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0					
(ii) Mobile cellular, including mobile data	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0					
(iii) Satellite-based services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0					
D. Audiovisual services																														
(a) Motion picture & video tape Production & distribution services	1.0	1.0	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.6	1.0	1.0	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.6	1.0	1.0	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.6
(b) Motion picture projection service	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(c) Radio & television services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(d) Radio & television transmission services	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0
(e) Sound recording services	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
(f) Other audiovisual services	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
3.CONSTRUCTION AND RELATED ENGINEERING SERVICES(Except dredging)																														
	0.5	1.0	1.0	0.5	0.7	0.5	1.0	1.0	1.0	0.8	0.5	1.0	1.0	0.5	0.7	0.5	1.0	1.0	1.0	0.8	0.5	1.0	1.0	0.5	0.7	1.0	1.0	1.0	1.0	1.0

Source: Data from GATS commitment schedules for the US (World Trade Organisation, 1994d, 1995c, 1997c and 1998d), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled “W.Aver.” are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Table A.9: Hoekman (1995) openness indices for distribution services, education services, environmental services in the US

	1994					1995					1997					1998										
	Market access				National treatment	Market access				National treatment	Market access				National treatment	Market access				National treatment						
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.						
4. DISTRIBUTION SERVICES																										
A. Commission agents' services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B. Wholesal trade (except wholesale trade of alcoholic beverages, firearms and military equipment)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B. Wholesale trade of alcoholic beverages	0.0	0.0	0.0	0.5	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.5	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.5	0.0	
C. Retailing (except retail sale of alcoholic beverages, firearms and military equipment)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
D. Franchising	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
5. EDUCATIONAL SERVICES																										
D. Adult education (except flying instruction)	1.0	1.0	0.5	0.6	1.0	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5
E. Other education services	1.0	1.0	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5	
6. ENVIRONMENTAL SERVICES																										
A. Sewage services (contracted by private industry)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B. Refuse disposal services (contracted by private industry)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
C. Sanitation and similar services	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
D. Other (cleaning services of exhaust gases; noise abatement services; nature and landscape protection services; other environmental services, n.e.c.)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	

Source: Data from GATS commitment schedules for the US (World Trade Organisation, 1994d, 1995c, 1997c and 1998d), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled "W.Aver." are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Table A.10: Hoekman (1995) openness indices for financial services, health related and social services in the US

	1994					1995					1997					1998																								
	Market access				National treatment	Market access				National treatment	Market access				National treatment	Market access				National treatment																				
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.															
7. FINANCIAL SERVICES																																								
A. Insurance																																								
a) Life, accident, and health insurance services (except workers compensation insurance)	1.0	1.0	0.5	0.5	0.8	0.5	0.5	1.0	1.0	0.7	0.5	1.0	0.0	0.5	0.3	0.5	1.0	1.0	0.5	0.7	0.5	1.0	0.0	0.5	0.3	0.5	1.0	1.0	0.5	0.7	0.5	1.0	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.8
b) Non-life insurance services	1.0	1.0	0.5	0.5	0.8	0.5	0.5	1.0	1.0	0.7	0.5	1.0	0.0	0.5	0.3	0.5	1.0	1.0	0.5	0.7	0.5	1.0	0.0	0.5	0.3	0.5	1.0	1.0	0.5	0.7	0.5	1.0	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.8
c) Reinsurance & retrocession	0.5	0.5	0.5	0.5	0.5	0.5	0.0	1.0	1.0	0.7	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.7
d) Services auxiliary to insurance:																																								
(i) Brokerage services	1.0	1.0	0.5	0.5	0.8	1.0	0.0	0.5	0.5	0.7	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5
(ii) Agency services	1.0	1.0	1.0	0.5	1.0	1.0	0.0	0.5	1.0	0.8	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5
(iii) Consultancy, actuarial, risk assessment, and claim settlement services	1.0	1.0	1.0	0.5	1.0	1.0	0.0	0.5	1.0	0.8	0.0	1.0	0.0	0.5	0.1	0.0	1.0	0.0	0.5	0.1	0.0	1.0	0.0	0.5	0.1	0.0	1.0	0.0	0.5	0.1	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5
B. Banking and all financial services excluding insurance																																								
(i) All subsectors	1.0	1.0	0.5	0.5	0.8	1.0	0.0	0.5	1.0	0.8	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	0.8
(ii) Trading of securities and derivative products and services related thereto; participation in securities issues	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	1.0	0.3	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	1.0	1.0	1.0	0.5	1.0
(iii) Participation in issues of government debt securities	1.0	1.0	0.0	0.5	0.6	1.0	1.0	0.5	1.0	0.8	1.0	1.0	0.5	0.5	0.8	1.0	1.0	0.5	0.5	0.8	1.0	1.0	0.5	0.5	0.8	1.0	1.0	0.5	0.5	0.8	1	1	0	1	0.6	1	1	1	1	1.0
8. HEALTH RELATED & SOCIAL SERVICES																																								
A. Hospital and other health care facilities-direct ownership and management and operation by contract of such facilities on a "for fee" basis	0.0	1.0	0.5	0.5	0.5	0.0	0.5	1.0	1.0	0.9	0.0	1.0	0.5	0.5	0.5	0.0	0.5	1.0	1.0	0.9	0.0	1.0	0.5	0.5	0.5	0.0	0.5	1.0	1.0	0.9	0.0	1.0	0.5	0.5	0.5	0.0	0.5	1.0	1.0	0.9

Source: Data from GATS commitment schedules for the US (World Trade Organisation, 1994d, 1995c, 1997c and 1998d), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled "W.Aver." are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Table A.11: Hoekman (1995) openness indices for tourism and travel related services, cultural and sporting services in the US

	1994					1995					1997					1998									
	Market access		National treatment			Market access		National treatment			Market access		National treatment			Market access		National treatment							
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.					
9. TOURISM AND TRAVEL RELATED SERVICES																									
A Hotels and restaurants (including catering)	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B Travel agents and tour operators	1.0	1.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	1.0
C Tour guide services	1.0	1.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	1.0
D Other	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0
10. RECREATIONAL, CULTURAL & SPORTING SERVICES																									
A Entertainment services (including theatre, live bands and circus services)	1.0	1.0	1.0	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.6
B News agency services	1.0	1.0	1.0	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.6
C Libraries, archives, museums and other cultural services	1.0	1.0	1.0	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.6
D Other recreational services (except sporting)	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6

Source: Data from GATS commitment schedules for the US (World Trade Organisation, 1994d, 1995c, 1997c and 1998d), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled "W.Aver." are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

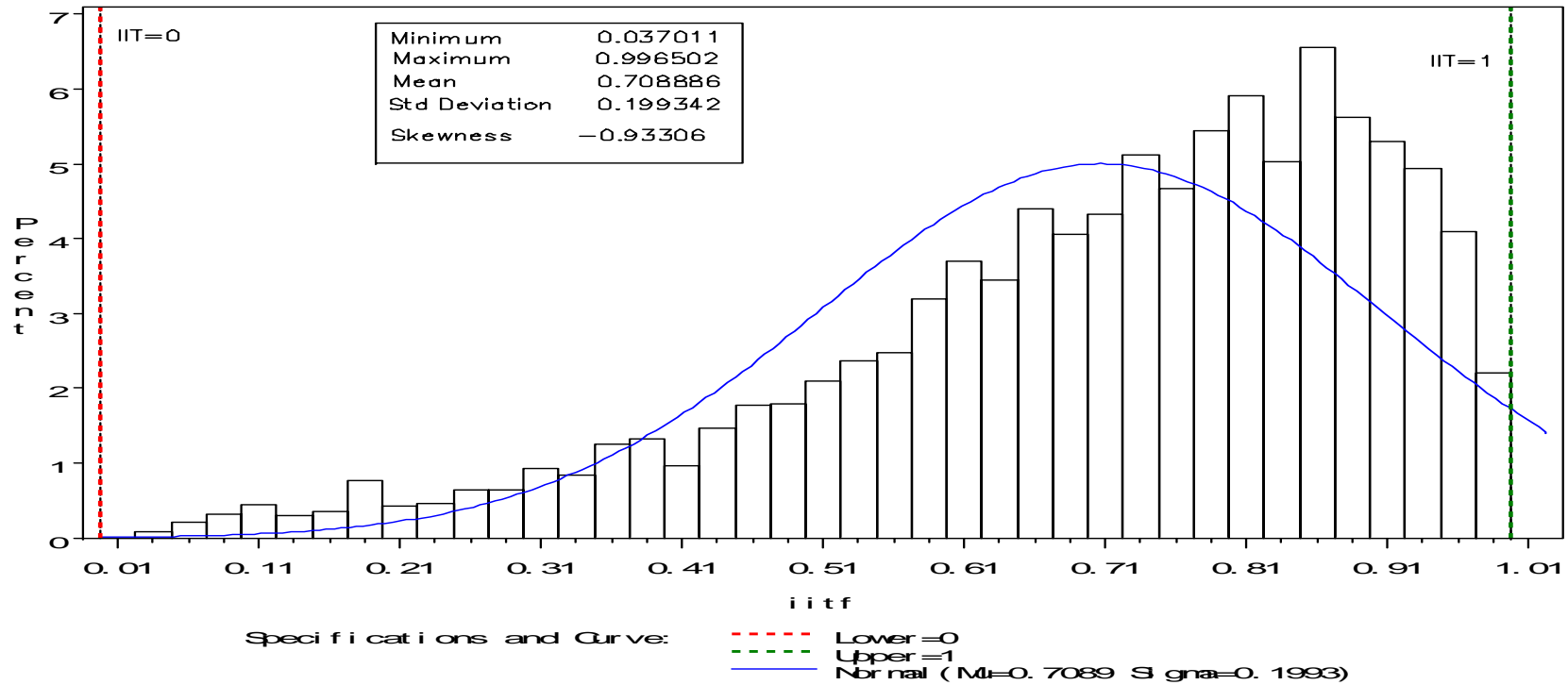
Table A.12: Hoekman (1995) openness indices for transport services in the US

	1994					1995					1997					1998																								
	Market access		National treatment			Market access		National treatment			Market access		National treatment			Market access		National treatment																						
	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.	Mode 1	Mode 2	Mode 3	Mode 4	W.Aver.																				
II. TRANSPORT SERVICES																																								
C. Air Transport services: aircraft repair and maintenance. (aircraft repair and maintenance activities, when undertaken on an aircraft or a part thereof, while it is withdrawn from service. Does not include line maintenance or other repair or maintenance activities undertaken by an air carrier (includes its agents or contractors) on aircraft it owns, leases, or operates.)	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	1.0	1.0										
E. Rail transport																																								
(a) Passenger transportation, excluding high speed rail	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0
(b) Freight transportation	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0
(d) Maintenance and repair of rail transport equipment	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.6	1.0	1.0	1.0	1.0	1.0
F. Road Transport																																								
(a) Passenger transport: interurban regular transport	0.0	1.0	0.0	0.5	0.1	0.0	1.0	0.0	1.0	0.1	0.0	1.0	0.0	0.5	0.1	0.0	1.0	0.0	1.0	0.1	0.0	1.0	0.0	0.5	0.1	0.0	1.0	0.0	1.0	0.1	0.0	1.0	0.0	0.5	0.1	0.0	1.0	0.0	1.0	0.1
(b) Freight transport (commitment limited to transportation of cargo that has either an origin or a destination outside the US)	0.0	1.0	0.0	0.5	0.1	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.5	0.1	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.5	0.1	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.5	0.1	1.0	1.0	1.0	1.0	1.0
(d) Maintenance and repair of road transport equipment	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.5	0.9	0.0	1.0	1.0	1.0	1.0
H. Services auxiliary to all modes of transport																																								
(d) Other supporting and auxiliary transport services: customs house brokers	0.0	1.0	0.5	0.5	0.5	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.5	0.5	0.5	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.5	0.5	0.5	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.5	0.5	0.5	0.0	1.0	1.0	1.0	1.0

Source: Data from GATS commitment schedules for the US (World Trade Organisation, 1994d, 1995c, 1997c and 1998d), available from http://www.wto.org/english/tratop_e/serv_e/serv_commitments_e.htm

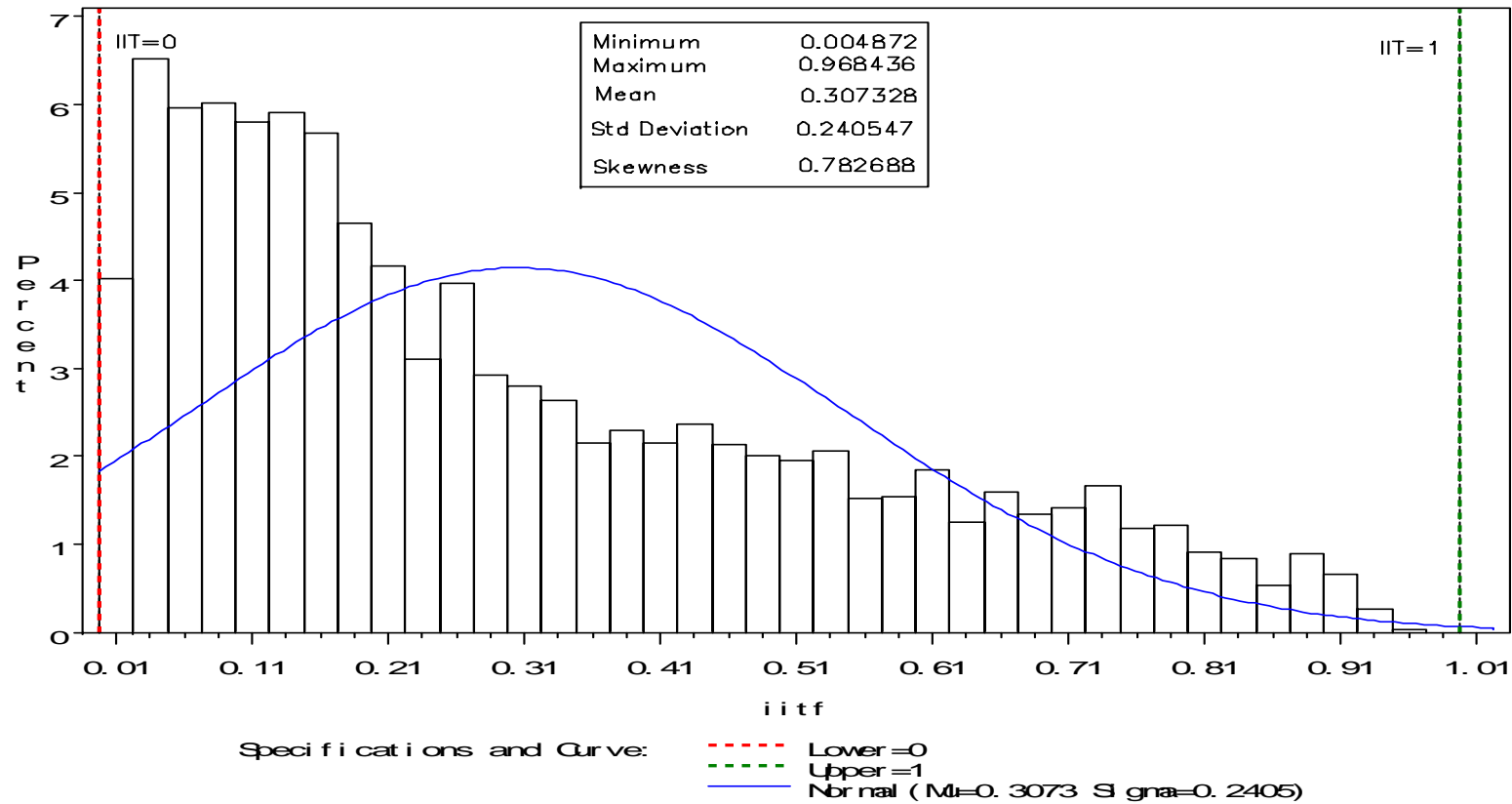
Notes: Mode 1 (cross-border trade), mode 2 (consumption abroad), mode 3 (commercial presence) and mode 4 (presence of natural persons). The scoring scheme is as follows: 1 (no restrictions applied), 0.5 (restrictions exist) and 0 (policies are unbound). The columns labelled "W.Aver." are weighted average of the scores for the 4 modes. The weights are taken from Table 4.10.

Figure A.1: EDF of predicted IIT in airfreight services



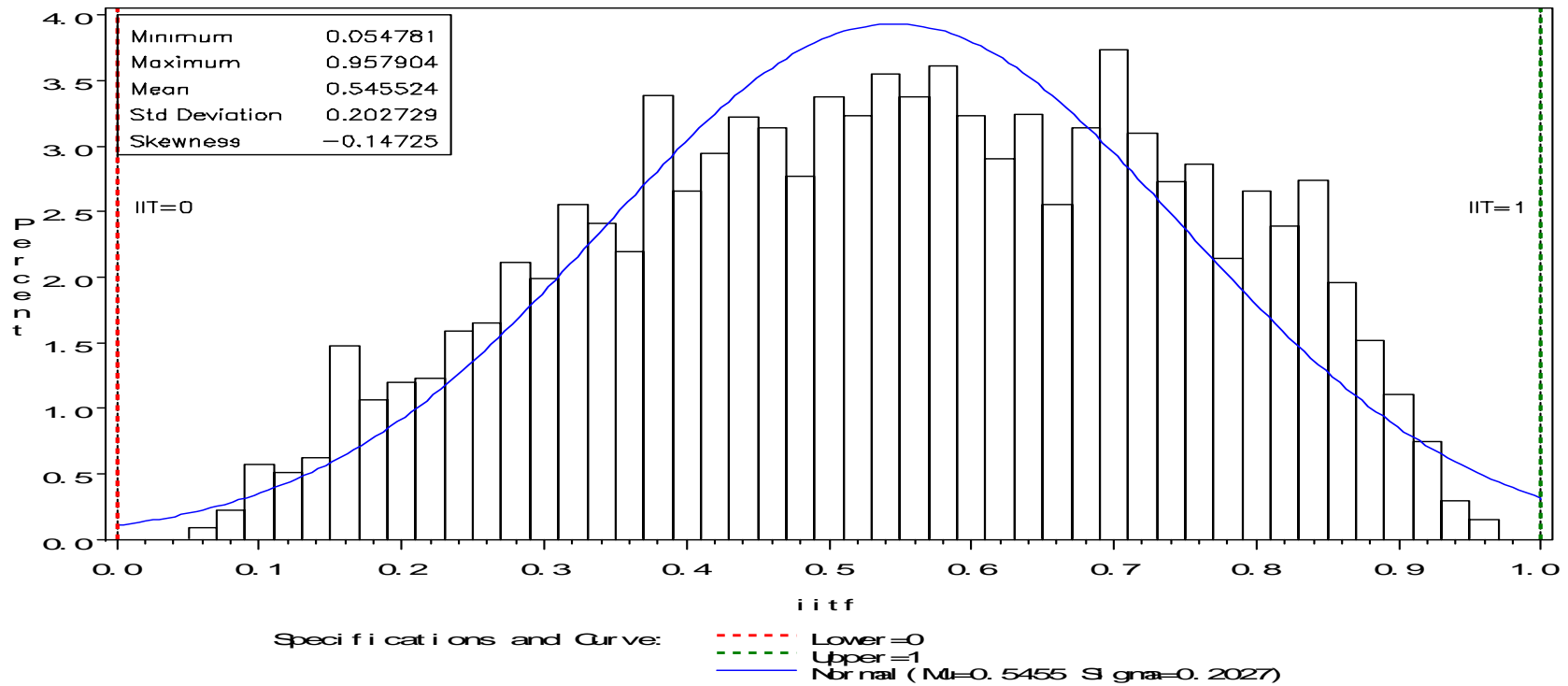
Source: SAS statistical software output from Liu-Davidson-Flachaire wild bootstrap algorithm

Figure A.2: EDF of predicted IIT in education and training services



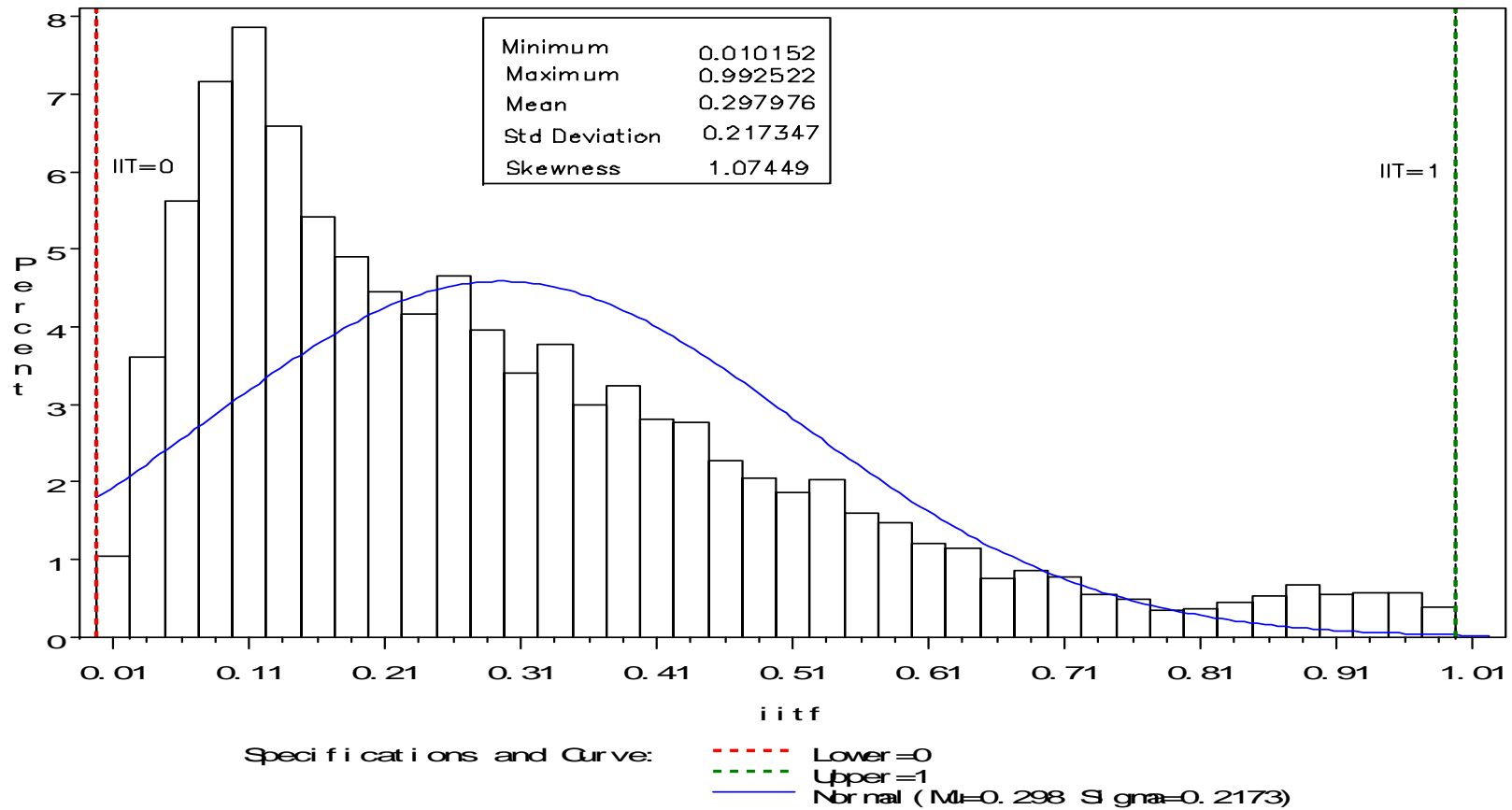
Source: SAS statistical software output from Liu-Davidson-Flachaire wild bootstrap algorithm

Figure A.3: EDF of predicted IIT in legal services



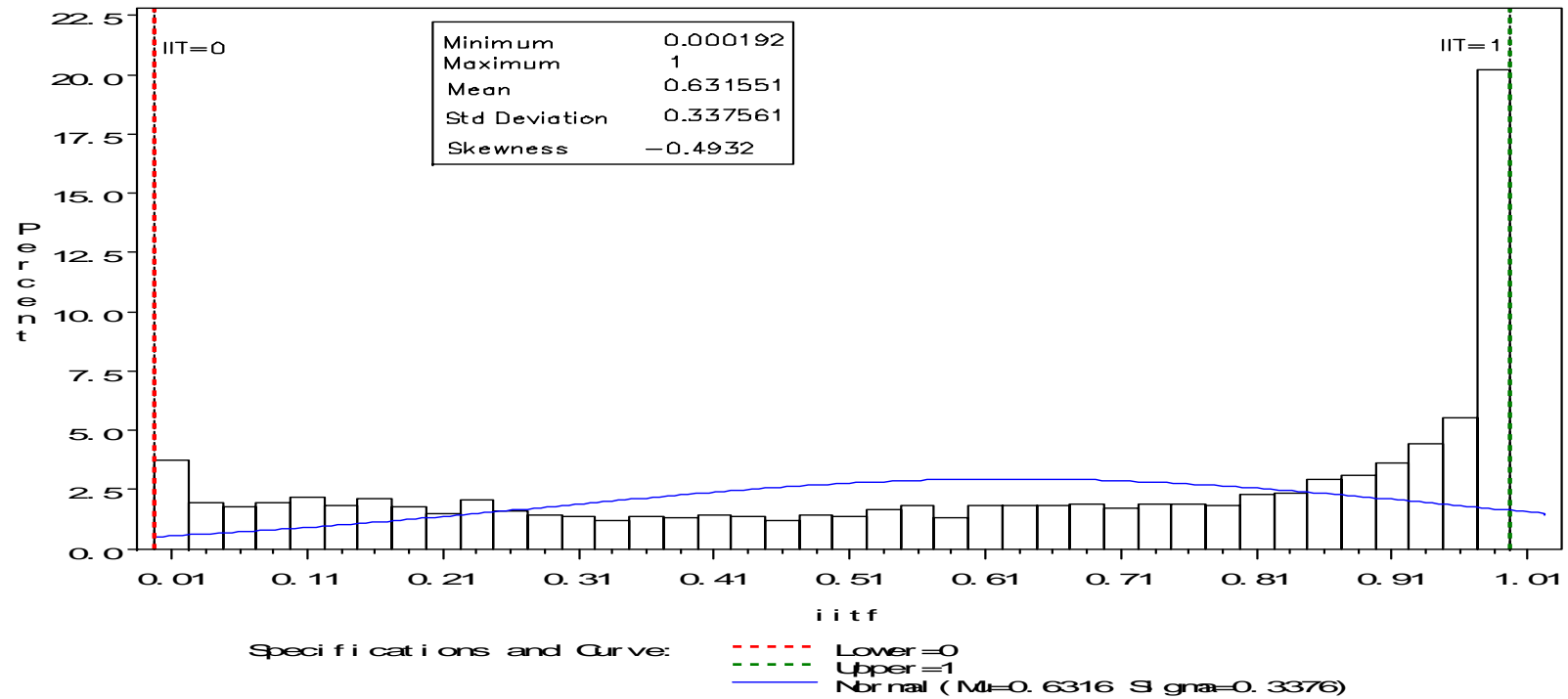
Source: SAS statistical software output from Liu-Davidson-Flachaire wild bootstrap algorithm

Figure A.4: EDF of Predicted IIT in management consulting and public relations services



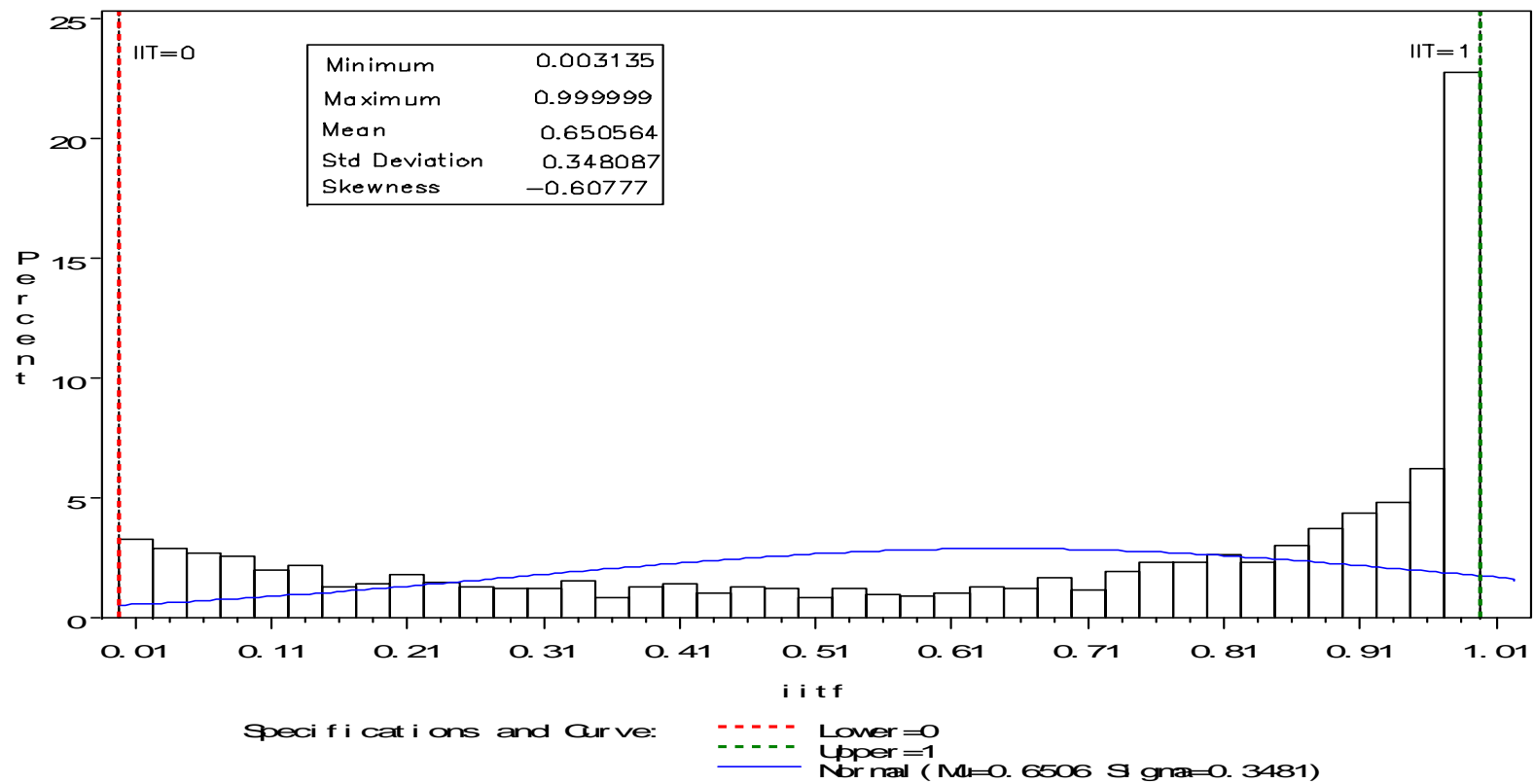
Source: SAS statistical software output from Liu-Davidson-Flachaire wild bootstrap algorithm

Figure A.5: EDF of Predicted IIT in ocean freight services



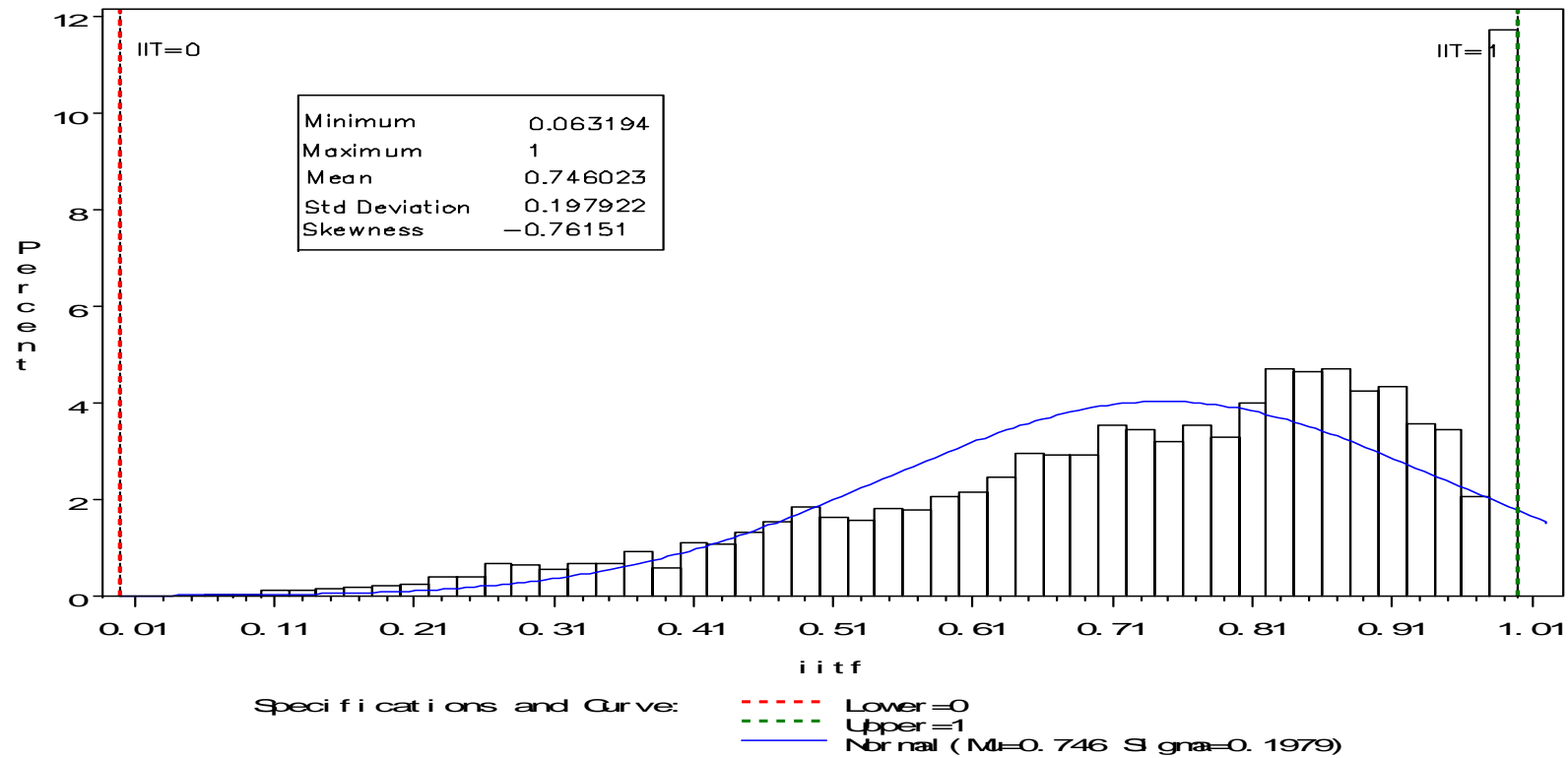
Source: SAS statistical software output from Liu-Davidson-Flachaire wild bootstrap algorithm

Figure A.6: EDF of predicted IIT in ocean port services



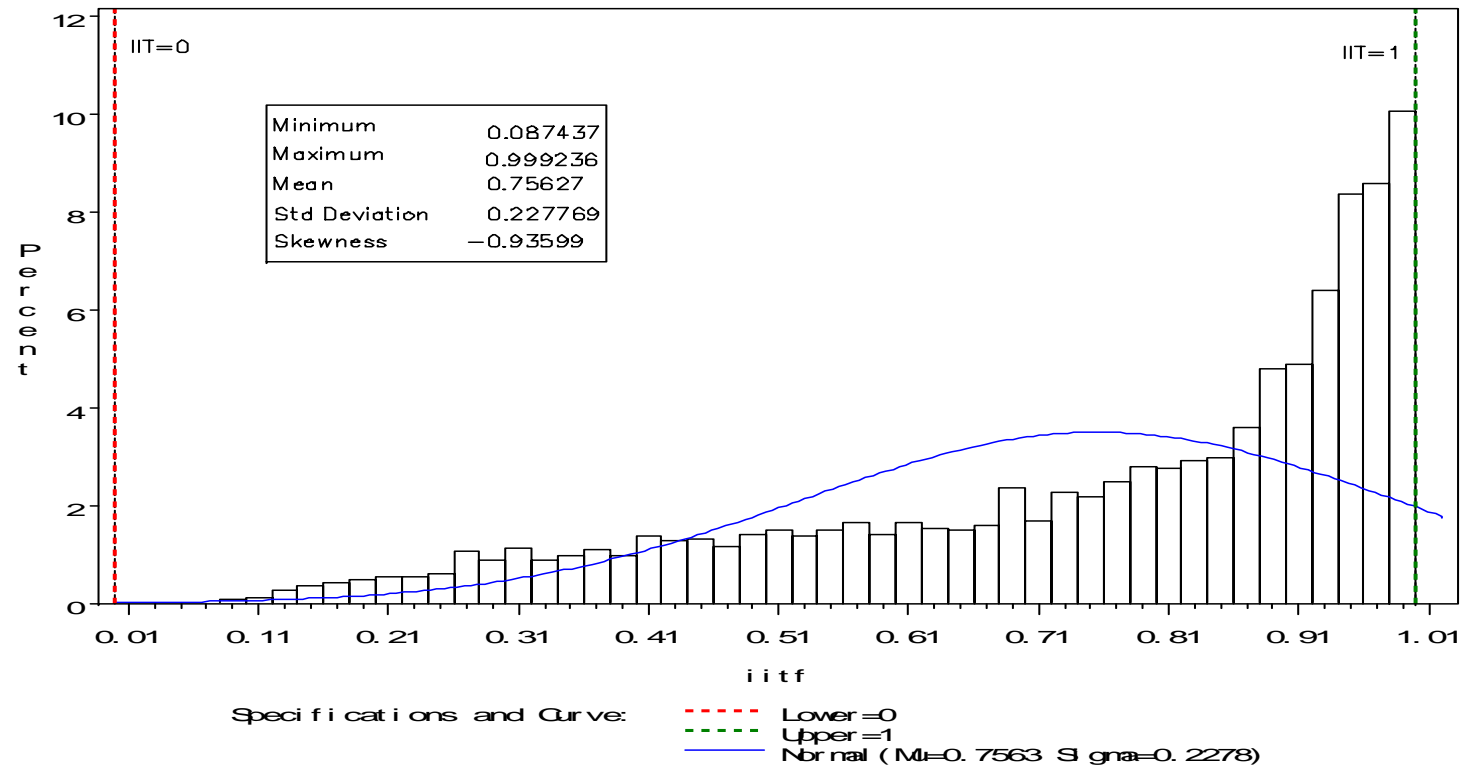
Source: SAS statistical software output from Liu-Davidson-Flachaire wild bootstrap algorithm

Figure A.7: EDF of Predicted IIT in research, development and testing services



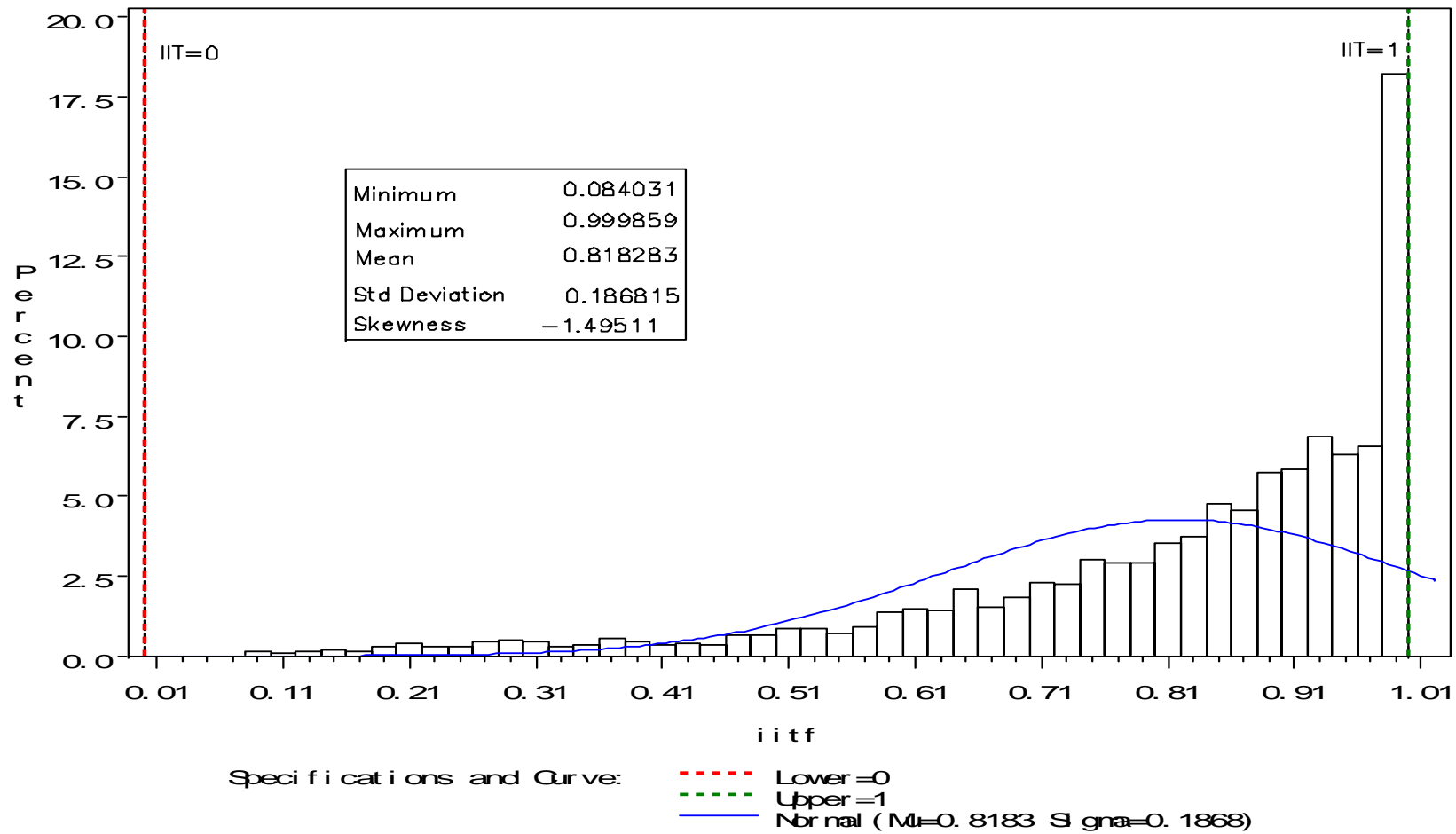
Source: SAS statistical software output from Liu-Davidson-Flachaire wild bootstrap algorithm

Figure A.8: EDF of predicted IIT in telecommunication services



Source: SAS statistical software output from Liu-Davidson-Flachaire wild bootstrap algorithm

Figure A.9: EDF of Predicted IIT in travel (tourism) services



Source: SAS statistical software output from Liu-Davidson-Flachaire wild bootstrap algorithm

Table A.13: Description of transport service industries using the BEA classification

Transport service industries	Services included
Passenger fares	Consists of (i) <i>revenue derived from carriage of passengers originating from, and destined to, points outside the US</i> . This is revenue from purchase of tickets for trips between foreign cities (ii) <i>Interline settlements</i> consists of revenues from foreign airline operators for transporting passengers and payments to foreign airline operators for transporting passengers.
Ocean freight	Consists of revenues related to transactions in ocean freight services provided by South African and United States carriers: (i) <i>Revenue on cargo outbound from the US ports</i> , which is revenue from charters (both collect and prepaid and net of any special discounts allowed the shippers) and from in-transit or transshipment cargoes, (ii) <i>Revenue on cross-trade cargoes</i> , which comes from transporting cargo from one foreign port to another, and it include revenue from charters, outbound cargo that is in transit through the United States and revenue from transshipment cargo,(iii) <i>Charter hire and space leasing paid to foreign residents</i> , which consist of payments to foreign residents for chartered vessels that are operated by United States and South African carriers and payments for space leased on foreign operated vessels, (iv) <i>Charter hire and space leasing received from foreign residents</i> , which consist of revenues received from foreign residents for vessels chartered and operated by them and revenues for space leased to foreign residents.
Ocean port services	(i) <i>Port call expenses</i> which includes payments for pilotage, for towing and tugboat services, for lines, for surveys and other documentation, for harbour fees and for berth fees, (ii) <i>Cargo expenses</i> which are payments for loading, unloading, and storing cargo at South African and United States ports. These expenses include expenses for stevedoring cargo, bulk cargo, and container barges, for lighterage, for container and barge rentals, and warehouse and terminal rentals, (iii) <i>Fuel expenses</i> , for fuel and oil purchased in South African and United States ports.
Airfreight	(i) <i>Revenue derived from the carriage of American exports from the US to points outside the US</i> . It includes carter contracts. (ii) <i>Revenue derived from transporting freight into the United States</i> . (iii) <i>Revenue derived from transporting air cargo between foreign countries</i> .
Airport services	(i) <i>Expenses incurred by South African air carriers in the United States and American carriers in South Africa from transporting freight and passengers</i> . The following expenses are covered: fuel and oil expenditure, expenditures for aircraft-handling and terminal services. Aircraft-handling and terminal services include expenses for aircraft repair, maintenance, storage and cleaning; handling services for freight and passengers; and other airport terminal services. Other expenses include airport and landing fees, aircraft modification and factory-type aircraft overhauls. (ii) <i>Aircraft-leasing expenses</i> are expenses of aircrafts that are leased by South Africans from United States residents and vice versa.
Other freight services	These are freight services provided by other modes of transport e.g. road, railway etc.

Source: Information from the US BEA (<http://www.bea.gov/bea/di/1001serv/intlserv.htm>)

Table A.14: Description of education and training services; and financial services using the BEA classification

Other private services industries	Services included
Education and training services	Consists of primary education services; secondary education services; higher (tertiary) education services education services; adult education services and other education services. In terms of data collection by US Bureau for Economic Analysis, this sector consists of education and training services provided on contract or fee basis. Excludes training done by a manufacturer in connection with the sale of a good.
Financial services	<p>(i) Brokerage services except foreign-exchange brokerage services: Execution of orders to purchase or sell securities, options, futures and other financial instruments excluding foreign currencies; (ii) Private Placement services: Arranging the sale of securities for another party means other than an exchange. These services exclude buying and selling securities for the account of the person doing the placement. (iii) Underwriting services: Buying and reselling all, or substantial portion of a new issue of securities. If an intermediary who does not own the securities executes the sale, the service is included in brokerage services;(iv) Financial management services: Management of financial portfolios through commodity pools, mutual funds, hedge funds, and trusts when the person who provides the service has the authority to direct the use or the investment of the assets;(v) Credit-related services (except credit card services): Renegotiating debt terms; establishing, originating, maintaining, or arranging standby letters of credit and commercial or similar letters of credit, letters of indemnity, lines of credit, participation in acceptances, mortgages, and credit facilities; factoring services; issuing financial guarantees and loan commitments (to make or purchase loans); arranging or entering into financial lease agreements;</p> <p>(vi) Credit card services: Processing and servicing credit card transactions; reimbursements for telecommunications from or to foreign acquirers and issuers; protection from losses from a default in the processing network; credit authorization; listing lost or stolen credit card numbers in warning bulletins or on electronic files; resignation assessment or membership fees; and multicurrency conversions;(vii) Financial advisory and custody services: Advisory services on mergers and acquisitions when the provider is not at risk of incurring a loss; investment newsletters or investment advice; advisory services on commodities trading and proxy voting; custody services (including payments and settlements services, such as mortgage servicing); and other advisory and custodial services;(viii) Securities-lending services: Lending or borrowing securities; arranging loan terms and conditions; monitoring the value of collateral; providing guarantees against default; and providing other securities-lending services;(ix) Foreign-exchange brokerage services: Execution of orders to exchange foreign currencies except by a person who is acting as a dealer or other principal and who is at risk of incurring losses. Excludes multicurrency conversion by credit card companies, which is included in credit card services. (x) Other financial services: Account maintenance and service; asset pricing; securities rating; electronic funds transfer; mutual-fund related services, such as liquidating shares (exit fees), selling shares to investors (load charges), and marketing and advertising; securities redemption and transfers; network services for automatic teller machines (ATM); security clearing and settling; and miscellaneous brokerage services, such as arranging joint ventures (excluding real estate service, business services, and commodity or merchandise brokerage services).</p>

Source: Information from the US BEA (<http://www.bea.gov/bea/di/1001serv/intlserv.htm>)

Table A.15: Description of other private services; royalties and fees using the BEA classification

Other private service industries	Services included
Insurance services	Consists of (i) <i>Direct insurance</i> (including co-insurance), which is divided into (a) Life, accident and health insurance services (b) Non-life insurance services; (ii) <i>Reinsurance and retrocession</i> ; (iii) <i>Insurance intermediation</i> , such as brokerage and agency; (iv) Services auxiliary to insurance, such as consultancy, actuarial, risk assessment and claim settlement services.
Telecommunication services	Consists of (i) <i>Message telephone services</i> provided by communications common carrier; (ii) <i>Private, leased channel services</i> ; (iii) <i>Telex and telegram services</i> and other jointly provided basic services; (iv) <i>Value-added, or enhanced services</i> such as electronic mail, voice mail, code and protocol conversion, management of data networks, facsimile services and video-conferencing services; (v) <i>Support services</i> such as the maintenance and repair of telecommunications equipment, ground station services, capacity leasing for transiting and the launching of communications satellites.
Business, professional and technical services	Research, development and testing services Industry; management, consulting and public relations services; advertising services; legal services; computer and data processing services; installation, maintenance and repair of equipment; construction, engineering, architectural, and mining services; database and other information services; industrial engineering services; other business, professional and technical services: language translation services; security services; collection services; actuarial services; salvage services; satellite photography services; oil and spill and toxic waste cleanup services.
Other private services	This include film and television rentals plus other private services not included elsewhere
Royalties and fees	
Industrial processes	Consists of (i) <i>License fees, royalties, and other fees</i> that are paid and received for the right to use patented industrial processes and products, trade secrets, and other proprietary rights and other intangible assets that are used in the production of goods; (ii) <i>Maintenance fees</i> paid to foreign governments for the continuation of patent rights.
Books, records and audio tapes	Consists of royalties and other fees that are received or paid for the right to perform, broadcast, reproduce, sell, or otherwise use copyrighted material or other intellectual property, such as books, records and audio tapes.
Broadcasting and recording of live performances	This covers receipts and payments for the rights to record and to broadcast artistic performances, sports events, and other performances and events.
Franchises	Covers the fees that are received and paid for the right to an ongoing business relationship that includes an entire business format. In addition to market a product or service or to use a trademark, the business format may include marketing strategy and plan, operating manuals and standards, quality control procedures, and continuing communications.

Source: Information from the US BEA (<http://www.bea.gov/bea/di/1001serv/intlserv.htm>)

Table A.16: Description of trademarks; general-use computer software and other intangibles

Royalties and fees	Services included
Trademarks	Covers the receipts and payments for the rights to sell products under a particular trademark, brand name, or signature.
General-use computer software	Covers receipts and payments for the rights to distribute general-use software and the rights to reproduce or use general-use computer software that was electronically transmitted or made from a master copy. It includes negotiated licensing fees for reproducing copies of general-use software for Local Area Network (LAN) computer systems. It excludes the value of pre-packaged general-use software that was physically shipped from South Africa to or from the United States and included in the Merchandise trade statistics.
Other intangibles	Covers receipts and payments for any intangible rights that are not included in the other categories. This category includes the rights of communication carriers to secure capacity by indefeasible right of users.

Source: Information from the US BEA (<http://www.bea.gov/bea/di/1001serv/intlserv.htm>)

Table A.17: Influential data observations

Obs	Service industry	Year	Residual	h	Covratio	Dffits	CookD
1	Afre	1994	-0.1549	0.4360	3.4494	-0.0913	0.0002
2	Afre	1995	0.4168	0.3163	0.7439	0.1726	0.0008
3	Afre	1996	-0.5183	0.2939	0.2600	-0.2004	0.0011
4	Afre	1997	-0.6496	0.2649	2.4153	-0.2292	0.0015
5	Afre	1998	0.3264	0.2988	2.7230	0.1281	0.0005
6	Afre	1999	0.5437	0.2767	2.5257	0.1992	0.0011
7	Afre	2000	1.4562	0.3771	1.7438	0.7283	0.0148
8	Afre	2001	-1.2277	0.4081	2.1313	-0.6707	0.0126
9	Afre	2002	-0.1927	0.4458	3.4963	-0.1169	0.0004
10	Educ	1994	0.1018	0.7199	6.9540	0.1552	0.0007
11	Educ	1995	-1.9138	0.3541	1.1291	-0.8993	0.0223
12	Educ	1996	0.1442	0.3182	2.8596	0.0601	0.0001
13	Educ	1997	-1.3290	0.4430	2.0311	-0.8051	0.0181
14	Educ	1998	-0.9063	0.3411	2.3992	-0.4054	0.0046
15	Educ	1999	0.6370	0.2621	2.4163	0.2227	0.0014
16	Educ	2000	1.6102	0.2613	1.4434	0.5653	0.0089
17	Educ	2001	0.3860	0.3354	2.8374	0.1693	0.0008
18	Educ	2002	1.2698	0.3251	1.9211	0.5429	0.0083
19	Fins	1994	-0.0429	0.8014	9.8519	-0.0974	0.0003
20	Fins	1995	-0.1820	0.4434	3.4856	-0.1096	0.0003
21	Fins	1996	-0.3490	0.4211	3.2651	-0.1969	0.0011
22	Fins	1997	0.5310	0.4480	3.2518	0.3244	0.0030
23	Fins	1998	-0.2998	0.3703	3.0368	-0.1458	0.0006
24	Fins	1999	0.6388	0.2744	2.4519	0.2324	0.0015
25	Fins	2000	0.5812	0.2885	2.5384	0.2210	0.0014
26	Fins	2001	-1.0346	0.3487	2.6600	-0.4739	0.0063
27	Fins	2002	0.1572	0.4730	3.6890	0.1033	0.0003
28	Legs	1994	0.0188	0.4095	3.3185	0.0103	0.0000
29	Legs	1995	-0.0074	0.4738	3.7249	-0.0048	0.0000
30	Legs	1996	-1.2105	0.2994	1.9488	-0.4781	0.0064
31	Legs	1997	0.2318	0.2551	2.5987	0.0791	0.0002
32	Legs	1998	1.3716	0.2316	1.6700	0.4347	0.0053
33	Legs	1999	0.6744	0.2497	2.3533	0.2263	0.0015
34	Legs	2000	-0.7813	0.3644	2.6132	-0.3743	0.0040
35	Legs	2001	-0.8651	0.3640	2.5157	-0.4141	0.0048
36	Legs	2002	0.5677	0.3232	2.6680	0.2402	0.0016
37	Mcps	1994	-1.4628	0.4544	1.8183	-0.9179	0.0234
38	Mcps	1995	0.7010	0.4129	2.8899	0.3868	0.0042
39	Mcps	1996	0.0250	0.3054	2.8214	0.0100	0.0000
40	Mcps	1997	1.0807	0.2753	2.0478	0.3953	0.0044
41	Mcps	1998	-0.1674	0.2330	2.5394	-0.0530	0.0001
42	Mcps	1999	-0.0748	0.2215	2.5143	-0.0228	0.0000
43	Mcps	2000	-0.1222	0.3418	2.9662	-0.0546	0.0001
44	Mcps	2001	-0.5277	0.3431	2.7736	-0.2370	0.0016
45	Mcps	2002	0.5482	0.4083	3.0350	0.2982	0.0025
Critical values				0.8000	1.2000	1.2600	1.6500

Source: Influential observations output from SAS statistical software

Notes: **Afre**-Airfreight services, **Educ**-Education and training services, **Fins**-Financial services, **Legs**-Legal services, **Mcps**-Management, consulting and public relations services, **Ocfr**-Ocean freight services, **Ocps**-Ocean port services, **Rdts**-Research, development and testing services, **Tels**-Telecommunications services, **Trav**-Travel (tourism) services. Shaded observations are influential since they are above the critical values.

Table A.18: Influential data observations (continued)

Obs	Service industry	Year	Residual	h	Covratio	Dffits	CookD
46	Ocfr	1994	3.7277	0.5692	0.0110	3.5717	0.3054
47	Ocfr	1995	3.1329	0.5252	0.0978	2.5347	0.1639
48	Ocfr	1996	-2.4655	0.3039	0.6073	-1.0035	0.0273
49	Ocfr	1997	-2.3298	0.2718	0.7297	-0.8546	0.0199
50	Ocfr	1998	-1.7209	0.2936	1.3393	-0.6709	0.0125
51	Ocfr	1999	-1.5918	0.4154	1.5786	-0.8924	0.0221
52	Ocfr	2000	0.7876	0.3688	2.6211	0.3822	0.0041
53	Ocfr	2001	0.6253	0.4355	3.0815	0.3684	0.0038
54	Ocfr	2002	-0.1655	0.5553	4.3608	-0.1395	0.0006
55	Ocps	1994	-0.9923	0.5722	3.0771	-0.8878	0.0221
56	Ocps	1995	-1.0123	0.7784	3.9579	-2.0511	0.1164
57	Ocps	1996	-0.2879	0.7530	7.4909	-0.5094	0.0073
58	Ocps	1997	2.5202	0.3058	0.5650	1.0331	0.0289
59	Ocps	1998	0.8941	0.2854	2.2617	0.3373	0.0032
60	Ocps	1999	-1.3829	0.3301	1.7847	-0.6010	0.0101
61	Ocps	2000	-4.5410	0.3348	0.0092	-2.1532	0.1118
62	Ocps	2001	7.7628	0.3498	0.0000	4.7595	0.3573
63	Ocps	2002	-2.9607	0.5883	0.1002	-2.9281	0.2180
64	Rdts	1994	-0.3583	0.7977	8.6862	-0.7972	0.0179
65	Rdts	1995	1.0123	0.7784	3.9579	2.0511	0.1164
66	Rdts	1996	0.2879	0.7530	7.4909	0.5094	0.0073
67	Rdts	1997	-0.9204	0.4509	2.7347	-0.5684	0.0091
68	Rdts	1998	-1.4023	0.2818	1.6989	-0.5250	0.0077
69	Rdts	1999	1.0214	0.2658	2.0891	0.3621	0.0037
70	Rdts	2000	0.8011	0.3620	2.5830	0.3811	0.0041
71	Rdts	2001	-0.2546	0.3563	2.9923	-0.1188	0.0004
72	Rdts	2002	-0.1870	0.3760	3.1105	-0.0925	0.0002
73	Tels	1994	-1.2225	0.4474	2.2208	-0.7493	0.1569
74	Tels	1995	-1.4464	0.4533	1.8452	-0.9046	0.0227
75	Tels	1996	2.6689	0.4453	0.3618	1.6673	0.0739
76	Tels	1997	0.2044	0.6251	5.1285	0.2170	0.0013
77	Tels	1998	0.5002	0.3775	2.9379	0.2486	0.0018
78	Tels	1999	0.0639	0.2811	2.7236	0.0237	0.0000
79	Tels	2000	1.1055	0.3518	2.1832	0.5113	0.0073
80	Tels	2001	-1.8824	0.3564	1.1666	-0.8903	0.0218
81	Tels	2002	0.0083	0.4553	3.5981	0.0052	0.0000
82	Trav	1994	0.3854	0.7249	6.4922	0.6010	0.0102
83	Trav	1995	-0.7012	0.3467	2.6352	-0.3185	0.0029
84	Trav	1996	1.7051	0.3138	1.3681	0.7077	0.0139
85	Trav	1997	0.6607	0.4372	3.0470	0.3914	0.0043
86	Trav	1998	1.4045	0.3803	1.8218	0.7088	0.0140
87	Trav	1999	-0.5297	0.2594	2.4793	-0.1835	0.0010
88	Trav	2000	-0.8974	0.2608	2.1973	-0.3127	0.0028
89	Trav	2001	-2.9821	0.3348	0.2738	-1.3491	0.0482
90	Trav	2002	0.9546	0.3777	2.4462	0.4760	0.0064
Critical values				0.8000	1.2000	1.2600	1.6500

Source: Influential observations output from SAS statistical software

Notes: **Afre**-Airfreight services, **Educ**-Education and training services, **Fins**-Financial services, **Legs**-Legal services, **Mcps**-Management, consulting and public relations services, **Ocfr**-Ocean freight services, **Ocps**-Ocean port services, **Rdts**-Research, development and testing services, **Tels**-Telecommunications services, **Trav**-Travel (tourism) services. Shaded observations are influential since they are above the critical values.