APPENDIX

Table 1. Converters between UIO and Domestic I/O

(1) Intermediate Sectors

т	UIO (127 sectors)		SIO (175 sectors)		JIO (408 sectors)
Code	Description	Code	Description	Code	Description
001	Livestock	001	Livestock	012101	Dairy farming
					Egg hen
					Fowls, n.e.c.
-				1	Pig raising
			:	1	Beef cattle raising
		ľ			•
					Other livestock-raising Sericulture
				012201	Sericulture
002	Flowers	002	Orchids & other flowers	011604	Flowers
003	Other agriculture	003	Other agriculture	011101	Rice
		019	Roasted coffee	011102	Barley & wheat
				011103	Miscellaneous cereals
				011201	Potatoes
				011202	Pulses
					Vegetables
				011401	_
				1	Field crops for edible oil
				I	Field crops for sugar
				1	Crops for beverages
				1	Other edible field crops
		ŀ			Field crops for feed
					Leaf tobacco
				011603	
	·			011609	Other inedible field crops
					(excl imported rubber)
				013102	Agricultural services
					(excl veterinary)
				021101	Forest planting & conservatio
				021301	Cultivated & uncultivated
					forest products (incl hunting)
				112901	Finished tea & coffee
004	Aquiculture	004	Aquarium fish	031104	Sea-shore water culture
				031202	Inland water culture
OOF	Dishing	007	Orbon Gibbin	021101	Coortel mater (i.l.)
UUS	Fishing	005	Other fishing		Coastal water fishing
					Off-shore water fishing
					Ocean water fishing
		-		031201	Inland water fishing
006	Mining & quarrying	006	Quarrying & mining	061101	Iron & ore mining
300		500	accounting or mining	1	Non-ferrous metal ores
Ì					Limestone
					Other materials for ceramics
					Gravel & quarry
					Crushed stones
Ì					Other non-metal ores
		-		1	Coal mining
				073101	Natural gas
007	Meat products	007	Meat preparations	111101	Slaughtering & meat processing

					Canned or bottled meat products Processed meat products
008	Dairy products		Milk Other dairy products	111204	Drinking milk & dairy products
009	Fruit & vegetable products	010	Fruit & vegetable preparations	111503	Bottled or canned agricultural products
	, 		*	111509	Other vegetables & fruits products
010	Seafood products	011	Seafood preparations		Frozen fishes & shellfishes Salted, dried & smoked seafoods
				111303	Canned or bottled seafoods
			•		Kneaded fish meat
				111309	Other processed seafoods
011	Oils & fats	012	Oils & fats	111203	Animal oil & fat
				111305	Fish oil & scrap
				111507	Vegetable oil & waste
012	Grain milling & flour	013	Wheat milling	111401	Grain polishing
,	manufacturing			111402	Flour manufacturing
013	Bread & confectionery	014	Biscuits	111502	Bread & confectionery
		015	Bread & confectionery		
		018	Chocolate & chocolate products		
014	Noodles & related products	016	Noodles & related products	111501	Noodles
015	Sugar & products	017	Sugar & sugar products	111504	Sugar
				111506	Glucose & isomerized sugar
016	Condiments	020	Spices	111902	Flavoring
017	Other processed foods	021	Soya bean products	111505	Starch
		022	Other food preparations	111901	
					Retort foods
					Frozen cooked foods Other foodstuffs
				110101	
018	Animal feed	023	Animal feed & other milled products	113101	Feeds for animal & poultry
019	Softdrinks & ice	024	Softdrinks	112902	Soft drinks
				112903	Ice manufacturing
020	Alcoholic drinks	025	Alcoholic drinks		Refined sake
				112102	
				112103	Ethyl alcohol for liquor manufacturing
				112104	Whisky & brandy
					Other liquor
021	Tobacco products	026	Tobacco products	114101	Tobacco
				1	

Т	· · · · · · · · · · · · · · · · · · ·				
				151102	Cotton-Yarn
				151103	Synthetic fiber yarn
				1 1	Woolen yarn
	in the second second			1 .	Other fiber yarns
				101100	other moer yarne
023	Woven fabrics	028	Woven fabrics	151201	Cotton & staple fibers fabrics
					(incl fabrics of discontinuous
					synthetic fibers)
				151202	Silk & artificial silk fabrics
				131202	-
			•		(incl fabrics of continuous
					synthetic fibers)
				151203	Woolen woven fabrics
	·			151209	Other woven fabrics
				151401	Yarn & fabric dyeing &
					finishing
024	Knitted fabrics	029	Knitted fabrics	151301	Knit fabrics
	Timeted Tubiles				
025	Wearing apparel	030	Shirts	152101	Wearing apparel
		031	Other garments		
		033	Tailoring & dressmaking		
026	Apparel accessories	032	Other wearing apparel	152201	Apparel accessories
	Typarer accessories	- 002	Other wearing apparer	102201	7.ppuro. uccessorios
027	Textile articles	034	Textiles articles	151901	Straw & rush products
				151902	Ropes & nets
				151903	Carpets & floor mats
					Textile for medical use
				1	Other fabricated textile
				101303	products
				152001	Cotton & beddings
				1	Other ready-made textile
				152909	* * * * * * * * * * * * * * * * * * * *
			4.		products
028	Footwear	035	Footwear	231901	Rubber footwears
020				231902	Plastic footwears
					Leather footwears
				241101	Deather rootwears
029	Leather & products	036	Leather & leather products	241201	Leather & fur products
					(excl wearing apparel)
				241202	Luggage, bags & miscellaneous
					leather products
030	Logging, sawmilling & wood	037	Sawmilling & preserving of		Logging
	preserving		wood	161101	Sawn lumber
			Plywood & veneer	161102	Plywood
031	Plywood & veneer	038	1 3		1
	Rattan, cork & other wood	039	Rattan		Wooden chips
		039 040	Rattan Wooden products for building		Wooden chips Other wooden products
	Rattan, cork & other wood	039 040	Rattan		<u>-</u>
032	Rattan, cork & other wood products	039 040 041	Rattan Wooden products for building Other wood & cork products	161909	Other wooden products
032	Rattan, cork & other wood	039 040 041	Rattan Wooden products for building	161909 171101	Other wooden products Wooden furniture & accessorie
032	Rattan, cork & other wood products	039 040 041	Rattan Wooden products for building Other wood & cork products	161909 171101	-
032	Rattan, cork & other wood products	039 040 041 042	Rattan Wooden products for building Other wood & cork products	161909 171101	Other wooden products Wooden furniture & accessorie Wooden fixtures

				181302 181303 182901	Japanese paper Paper board Corrugated card board Coated paper & paper converted for construction use Cellophane Other pulp, paper & converted paper products
035	Paper containers	044	Paper containers		Corrugated cardboard boxes Other paper containers
036	Newspapers	045	Newspapers	191101	Newspapers
037	Books & magazines	046	Books & magazines	191103	Publishing
038	Printing & allied industries		Commercial & job printing Other printing	191102	Printing, engraving & book- binding
039	Industrial gases	049	Industrial gases	202903	Compressed gas & liquefied gas
040	Basic industrial chemicals	050	Basic industrial chemicals	202101 202901 202902 202909 203201 203202 203902	Ammonia Industrial soda chemicals Sulfuric acid Inorganic pigment Other inorganic basic chemicals Aliphatic intermediates Cyclic intermediates Methane derivatives Oil & fat industrial chemicals
041	Paints & varnishes	051	Paints	207201	Paints, varnish & lacquer
042	Medicinal & pharmaceutical products	052	Medicinal & pharmaceutical products	206101	Medicaments
043	Cosmetics & toiletries	053	Toiletries	207102	Cosmetics, toilet preparations & dentifrices
044	Soaps, detergents & polishes	054	Soaps, detergents & polishes	207101	Soap, synthetic detergents & surface active agents
045	Inks & carbon black	056	Inks & carbon black	207202	Printing ink
046	Other chemical products		Incense, joss sticks & matches Other chemical products	201102 201103 203905 203909 207901	Organic fertilizers, n.e.c. Elemental fertilizers Combined & compound fertilizers Synthetic dye Other organic basic chemicals Agricultural chemicals
- 1		-		1 1	Gunpowder Other final chemical products
047	Petroleum refining	058	Petroleum refining	203101	Crude petroleum Petrochemical basic products Petrochemical aromatic products

			·		
				211101	Coal tar products Petroleum refinery products Coal products
048	Paving materials	059	Bitumen & asphalt premix	212102	Paving materials
049	Processing of rubber & natural gums		Rubber processing Processing of natural gums	011609	Other inedible field crops (imported rubber only)
050	Tyres & tubes	062	Tyres & tubes	231101	Tyres & inner tubes
051	Other rubber products	063	Other rubber products	231909	Other rubber products
052	Thermoplastic materials	064	Thermoplastic materials	l	Synthetic rubber Thermoplastic resin
053	Thermosetting & other plastic materials	065	Thermosetting & other plastic materials	204101 204103 204109 205101	Plasticizers Thermosetting resin High functionality resin Other resin Artificial silk & staple fibers Synthetic fiber
054	Plastic products	067	Plastic bags Plastic industrial supplies Other plastic products	221101	Plastic products
055	Pottery, china & earthenware	069	Pottery & earthenware products	253101	Ceramic wares
056	Glass & products	070	Glass & glass products	1	Sheet glass & safety glass Other glass & glass products
057	Fiberglass & products	071	Fiberglass & fiberglass products	251201	Glass fiber & glass fiber products
058	Cement	072	Cement	252101	Cement
059	Non-metallic mineral products	074	Concrete products Bricks & earth-baked products Non-metallic mineral products	252301 259901 259902 259903 259904	Ready-mixed concrete Cement products Clay refractories Other structural clay products Carbon & graphite products Abrasives Miscellaneous ceramics, stone & clay products
060	Iron & steel rolling mills	076	Iron & steel rolling mills	262301	Hot rolled steel Cold-finished steel Coated steel
061	Iron foundries & non-ferrous basic metals	078	Iron foundries Non-ferrous basic metals Metal scrap	261102 261103 261201 263101 263103	Pig iron Ferro alloy Crude steel Iron scrap Cast & forged steel Cast & forged materials (iron) Iron & steel shearing &

				262100	slitting Other steel products
					<u>-</u>
	+ 14				Copper
				1	Lead (incl regenerated lead)
				271103	Zinc (incl regenerated zinc)
				271104	Aluminum
	4. 44			271109	Other non-ferrous metals
				271201	Non-ferrous metal scrap
				272201	Rolled & drawn copper & alloys
	production of the second			272202	Rolled aluminum products
				1	Non-ferrous metal castings &
					forgings
				272204	Nuclear fuels
					Other non-ferrous metal
				212203	
					products
062	Metal furniture	080	Metal furniture	171103	Metallic furniture & accessories
000	M. I. O. I	000	M. I. i. o. I	000001	
063	Metal pipes & tubes	082	Metal pipes & tubes	1	Steel pipes & tubes
	in the first term of the firs			263102	Cast iron pipes & tubes
		001		224404	
064	Other structural metal products		Metal doors & windows		Metal products for construction
		083	Other structural metal products	281201	Metal products for architecture
065	Metal containers		Tin-plate cans	289902	Metal containers, fabricated
		086	Other metal containers		plate & sheet metal
				-	•
066	Other metal products	079	Cutlery & tools	289101	Gas & oil appliances, heating
	Language State of the Control of	087	Electroplating		& cooking apparatus
		088	General hardware	289901	Bolts, nuts, rivets & springs
	·	089	Metal stampings	289903	Plumber's supplies, powder,
		090	Other metal products		metallurgy products & tools
			• .	289909	Other metal products
				ł	Metal mold
					Bearings
				303109	Other general machines & parts

067	Computers & accessory devices	091	Computers	1	Electronic computing equipment
				331102	Electronic computing equipment
					accessories
068	Office machinery & equipment	092	Other office machinery &	311101	Office machines
			equipment		
069	Lifting & hoisting machines	093	Lifting & hoisting machines	301201	Conveyors
070	Other industrial machinery &	095	Oilfield & gasfield machinery	301101	Boilers & turbines
	equipment		General engineering works		Engines
			Other industrial machinery &		Pumps & compressors
		031	equipment		Sewing machines & knitting
			equipment	301302	
	1.4			201000	machinery
				1	Machinists' precision tools
				301909	Other general industrial
					machinery & equipment
				302101	Mining civil engineering &
					construction machinery
				1	

				302201	Chemical machinery
				1	Industrial robots
					Metal machine tools
		-			
		1.		1	Metal processing machinery
				1	Agricultural machinery
				302902	Textile machinery
. [1		302903	Food processing machinery
				302909	Other special industrial
					machinery
				303210	Repairs of general machinery
					Machinery for service industry
					Other industrial heavy
				1 1	electrical equipment
					• •
				391904	Ordnance
071	Electric motors & generators	098	Electric motors & generators	341101	Rotating electrical machinery
				342106	Electrical equipment for
					internal combustion engines
				0.41100	D.I
072	Switchgear & switchboard	099	Switchgear & switchboard		Relay switches & switchboards
	apparatus		apparatus	342105	Wiring devices & supplies
073	Other electrical industrial	100	Other electrical industrial	332101	Wired communication
	apparatus & telecommunication		apparatus		equipment
	' '	105	Capacitors & resistor	332102	Radio communication
1	equipment		Printed circuit boards	002102	equipment
				222100	Other communication
		107	Other communication	332109	
			equipment		equipment
				341103	Other electricity transmission
					& distribution apparatus
				342109	Other weak electrical equipmen
			i	343109	Parts & accessories of
					electronic & communication
					equipment
	·			343210	Repair of electric machinery
074	Audio & video equipment &	101	Microphones, loudspeakers &	321101	Electric audio equipment
	accessories		amplifiers	321102	Radio & television sets
		102	Radios & sound recorders	321103	Magnetic recording & playback
			Television sets		equipment (VTR)
			Records & magnetic tapes	343102	Parts & accessories of electric
			Repair of household goods	3.0102	audio equipment
		1/2	Kepair or nousehold goods	-	audio equipment
075	Semiconductors & electronic	104	Semiconductors & electronic	334101	Semi-conductor devices &
	tubes		tubes		integrated circuits
				343101	Electron tubes
		ı			Electrical wires & cables
		60.	NT		
076	Electric wires & cables		Non-insulated cable products	272101	Electrical wires & cables
076	Electric wires & cables		Non-insulated cable products Electrical wires & cables	272101	Electrical wifes & Cables
		111	Electrical wires & cables		Refrigerating & air
	Household appliances,	111	Electrical wires & cables Refrigerators & air-		
	Household appliances, refrigerators & air-	094	Refrigerators & air-conditioners	301301	Refrigerating & air conditioning apparatus
	Household appliances,	094	Electrical wires & cables Refrigerators & air-	301301	Refrigerating & air conditioning apparatus Other household electric
	Household appliances, refrigerators & air-	094	Refrigerators & air-conditioners	301301 321109	Refrigerating & air conditioning apparatus Other household electric appliances
077	Household appliances, refrigerators & air-	111 094 109	Refrigerators & air-conditioners	301301 321109	Refrigerating & air conditioning apparatus Other household electric

079	Lamp & lighting fixtures	112	Lamp & lighting fixtures	342102	Electric lighting fixtures
	- Mg. Company		Bamp & lighting fixedes		Electric bulbs
080	Motor vehicles	113	Motor vehicles		Passenger cars Trucks, buses & other motor
					vehicles
081	Motor vehicle bodies & parts	114	Motor vehicles bodies & parts		Motor vehicle bodies Internal combustion engines for
				354103	motor vehicles & their parts Motor vehicle parts & accessories
082	Motor cycles & non-motorised vehicles	115	Motor cycles & non-motorised vehicles		Two wheel motor vehicles Railroad cars
		***		362110	Repair of railroad cars
					Bicycles Other transportation equipment
083	Building of ships, boats &	1	Building of ships & boats	361101	Steel ships
	oil rigs	119	Oil rigs	361102	Other ships
084	Repairing of ships & boats	117	Repairing of ships & boats	361110	Repair of ships
085	Ship engines & parts	118	Marine engine & ship parts	361103	Internal combustion engine for vessel
086	Aircraft & repair	121	Aircraft	1	Aircrafts Repair of aircrafts
	Scientific & precision equipment	122	Scientific & precision equipment	342101 371901	Applied electronic equipment Electric measuring instruments Physical & chemical instruments Analytical instruments, testing machines & measuring instruments
		-		1	Medical instruments Repair of precision instruments
088	Photographic & optical goods	123	Photographic & optical goods	207301	Photographic sensitive
				1	Cameras Other photographic & optical instruments
089	Watches & clocks	124	Watches & clocks	371201	Watches & clocks
090	Toys & recreational goods	125	Toys & recreational goods	391101 391102	Toys Sporting & athletic goods
	Other manufactures & activities not elsewhere classified		Jewellery Umbrellas	1	Musical instruments & record
	not elsewhere eldssificu	128	Signs & displays	1	disks Writing instruments &
		129	Other manufactures	1	stationery Small personal adornments
				391909	Miscellaneous manufacturing products

		·		900000	Activities not elsewhere classified
092	Electricity	130	Electricity	511102 511103	Electric power (atomic) Electric power (thermal) Electric power (water, etc.) Self power generation
093	Gas	131	Gas	512101	Gas supply
094	Water	132	Water	521101	Steam & hot water supply Water supply Industrial water supply
095	Building construction & repair	133	Building construction	411101	New residential construction (wooden)
					New residential construction (non-wooden)
			·		New non-residential construction (wooden) New non-residential
					construction (non-wooden) Repair of buildings
096	Other construction	134	Other construction	413101	Public utility construction & maintenance of roads
				413102	Public utility construction & maintenance of rivers, drainers & others
				413103	Agricultural public utility construction
				1	Railway construction Electric utility facilities construction
				413203	Telecommunications facilities construction
			·	413209	Other civil engineering & construction
097	Wholesale & retail trades	135	Wholesale & retail trades	611101 611201	Wholesale trade Retail trade
098	Restaurants	136	Restaurants	861201	General eating & drinking
				1	places (excl coffee shops) Coffee shops Amusement eating & drinkin places
099	Hotels & other lodging places	137	Hotels	861301	Hotel & other lodging places
100	Passenger transport by land	138	Passenger transport by land	712102	Bus transport Limousine & taxi transport Renting & leasing of motor vehicles
101	Freight transport by land	139	Freight transport by land	712201	Road freight transport

102	Water transport	140	Water transport	714101	Ocean transport
				714201	Coastal & inland water
					transport
	a estado est Estado estado estad			714301	Transport service in harbor
103	Port services	141	Port services	717902	Services related to water
ŀ					transport (public)
				717903	Services related to water
					transport (industrial)
					•
104	Air transport	142	Air transport	715101	Air transport
			-	717904	Services related to air
					transport (public)
				717905	Services related to air
					transport (industrial)
105	Forwarding & warehousing	143	Container services	1	Railway forwarding
	services	144	Forwarding & warehousing	716101	Storage facilities services
			services	717101	Packing
		146	Crane & hoisting services		
100	Other transport services	1 4 5	Other transport services	711101	National railway transport
106	Other transport services	145	(incl foreign shipping lines	711101	(excl passengers of exceptional
			& airlines)		reduced fare line)
			& airlines)	711201	, ,
				711201	National railway transport
					(passengers of exceptional reduced fare line)
				711201	· · ·
				711301	Local railway & tramway
				717001	transport Road transport facilities
-				717901	services
				717000	Other transport services
				717303	Other transport services
107	Communications	147	Communications	731101	Postal service
				731201	Domestic telecommunication
	100				service
	Commence of Artist			731202	International telecommunication
					services
				731909	Other services related to
					communication
108	Life insurance	148	Life insurance	621201	Life insurance
109	General & other insurance	149	General & other insurance	621202	Casualty insurance
110	Financial services	150	Banking	621101	Financial service
110	a manetar services		Finance companies	321701	
			Other financial services		
		102	The state of the s		
111	Real estate	153	Real estate	641101	Real estate agencies & managers
					Real estate rent
				051005	r 1 (; 1 e
112	Legal, accounting & data	1	Legal services	851902	Legal, financial & accounting
	processing services		Accounting & data processing	051000	services
		161	Market research & management	851201	Information services
			consultant services		
L		L	J	1	1

1	Architectural & engineering services	÷	Architectural & engineering services petroleum & mining consultant services	851903	Civil engineering & construction services
114	Advertising services	159	Advertising services	851101	Advertising
115	Leasing of machinery & equipment	160	Leasing of machinery & equipment		Renting & leasing of electronic computing equipment Renting & leasing of office machines (excl electronic computing equipment)
	Other business & technical services	162	Employment & labor contracting services Other business & technical services Security services	851901	News syndicates & detective agencies Building maintenance service Other business services
117	Government all large and the second of the s	163	Producers of government services (excl PWD & MOE Drainage & Sewage Department)	521201 811101 811201 821101 821103	Sewage disposal (public) Other sanitary services (public) Public administration (central) Public administration (local) School education (public) School research institute (public, natural sciences) School research institute (public, social sciences &
				821303	humanities) Social education (public) Other education (public) Research institute (public, natural sciences)
				831101 831104 831201	Research institute (public, social sciences & humanities) Medical service (public) Health & hygiene (public) Social insurance (public) Social welfare service (public)
118	Education	165	Education	821105	School education (private) School research institute (private, natural sciences) School research institute (private, social sciences &
-				822103	humanities) Other education (industrial) Research institute (industrial, natural sciences) Research institute (industrial, social sciences & humanities)
119	Medical & health services	166	Medical & health services	831103	Veterinary service Medical service (industrial) Health & hygiene (industrial)
			Environmental health services		Other sanitary services

			48 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		(industrial)
121	Movie production & cinemas	168	Cinema services	861101	Motion picture production & distribution
				861102	Movie theaters
122	Broadcasting, theater &	169	Broadcasting & entertainment	732101	Public broadcasting
	entertainment services		services	11.	Private broadcasting
			**		Cable broadcasting
				861103	Theater & entertainment
					facilities
				861106	Theatrical companies
123	Other recreational services	170	Other recreational services	861104	Amusement halls
				861105	Other amusement & recreation
					facilities
				861107	Other amusement & recreation
					services
124	Personal & household services	171	Personal & household services	861901	Cleaning, laundries & dyeing
					services
				1	Barber shops
				1	Beauty shops
				1	Public baths
					Photo studios
	H 143				Funeral services
					Miscellaneous repairs, n.e.c.
				861909	Other personal services
125	Repair of road transport	173	Repair of road transport	1	Repair of motor vehicles
	equipment		equipment	362910	Repair of other transportation
					equipment
126	Domestic services & non-profit	174	Domestic services & non-profit	821302	Social education
	bodies		bodies		(private, non-profit)
				831102	Medical service
					(private, non-profit)
				831105	Health & hygiene
					(private, non-profit)
				831202	Social insurance
					(private, non-profit)
				831204	Social welfare service
					(private, non-profit)
				841101	Private non-profit
			:		organizations serving
					enterprises
			,	841102	Private non-profit
					organizations serving
					households, n.e.c.

(2) Value Added

UIO		SIO		JIO	
Code	Description	Code	Description	Code	Description
001	Compensation of employees	180	Compensation of employees	9312000	Wages & salaries Social insurance (employer's contribution) Other payments & allowances
002	Operating surplus	181	Gross operating surplus	9412000	Operating surplus
003	Depreciation of fixed capital	181	Gross operating surplus	9420000	Depreciation of fixed capital
004	Net indirect taxes	179	Other indirect taxes	Turns 1	Indirect taxes (excl custom duties) Current subsidies

(3) Final Demand

UIO		SIO		JIO	
Code	Description	Code	Description	Code	Description
001	Private consumption	178	Private consumption expenditure		Consumption expenditures of household Consumption expenditures of private non-profit institutes
002	Government consumption	179	Government consumption expenditure		Consumption expenditure of central government Consumption expenditure of local government
003	Gross domestic fixed capital formation	180	Gross fixed capital formation		Gross domestic fixed capital formation (government) Gross domestic fixed capital formation (private)
004	Increase in stock	181	Change in stocks	915020 915030 915040	Net increase in producer's inventories Net increase in half-finished products Net increase in trader's inventories Net increase in raw-materials inventories Net increase in unclassified inventories

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ABBREVIATIONS

CCCN	Custom Cooperation Councils Nomenclature
c.i.f.	cost, insurance, and freight
f.o.b.	free on board
IDE	Institute of Developing Economies, Japan
JIO	1985 Japan Input-Output Sector Classification
MITI	Ministry of International Trade and Industry, Japan
NUS	National University of Singapore, Singapore
ROW	Rest of the World
SIO	1985 Singapore Input-Output Sector Classification
SITCR2	Standard International Trade Classification, Revision 2
UIO	Uniform Input-Output Sector Classification