

## 14 INSTALLATIONS

Section 14.1 consists of a list of Orion 1 systems ordered giving a brief summary of applications, the size of each machine and also a list of the peripheral devices (with their assigned geographical names and k-bits) attached to each machine.

Section 14.2 gives information about k-bits and also the distribution of the character peripheral devices between the character control units for each machine in 14.1

Section 14.3 consists of a list of Orion II systems ordered giving a brief summary of applications, size of each machine and peripheral devices attached.

Each type of print barrel has been assigned a number. When Chapter 1 of Basic Input is entered V64 is the number indicating which type of print barrel this installation has. (See 7.1.2.2, 7.1.4.2.12, 7.1.5)

<u>Type</u>	<u>Number (V64)</u>
No line printer	0
I.C.T. Commercial	1
I.C.T. Swedish (Gothenburg)	2
I.C.T. Scientific	3
Anelex Standard	4
I.C.T. Swedish (Stockholm)	5
Anelex Swedish	6

14.1.1 I.C.T. Newman Street. (Machine No.2.)

This machine is used for a computing service.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>
16,384 words of core store 2 MD5 drums (32,768 words)		
6 Ampex FR300 decks 1 magnetic tape control unit	MTA to MTF	See 14.2.1
1 Flexowriter "Z"	FLX or FLO	See 14.2.2
3 TR5 tape readers	TRA, TRB, TRC	16, 35, 19
1 TR7 tape reader	TRF	32
1 teletype punch can be used 7-track or 5-track)	SPA or FPA	26 or 28
1 7-track teletype punch	SPB	41
1 Creed 3000 punch - 7-track	SPF	25
3 character control units		
1 ICT 593 card reader	CRA	224
1 Anelex line printer (Standard)	LPA	97
1 ICT 582 card punch	CPA	98

Spares

1 Flexowriter "Z"

14.1.2 AB Turitz & Co. Machine No. 1

This machine is installed in Gothenburg, Sweden. It is used for stock controls for stores for their 70 retail branches. Buyers may interrogate the machine directly by means of key-sets at enquiry stations.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>	<u>Attached to Character Control Unit</u>
8,192 words of core store 2 MD5 drums (32,768 words)			
7 Ampex TM2 decks 2 Magnetic tape control units	MTA to MTG	See 14.2.1	
1 Flexowriter "Z"	FLX or FLO	See 14.2.2	1
1 TR5 tape reader	TRA	16	2
2 TR7 tape readers	TRB TRC	35 32	3 3
1 7-track teletype punch	SPA	25	2
2 Flexowriters "C"	FCA FCB	13 41	1 3
35 Enquiry Stations and Keyboard	EKA	1	1
2 I.C.T. 665 line printers (Gothenburg)	LPA LPB	97 98	
Orion/1900 link			
From 1900	TRZ	37	3
To 1900	FCZ	44	3

14.1.3. Norwich Union Life Assurance Company Limited Machine No.5

This machine is installed at Norwich. It is used for processing life policies in the U.K. portfolio and for the processing group life pension schemes involving 150,000 to 200,000 lives.

<u>Equipment</u>	<u>Geographical Name</u>	k-bits	<u>Attached to Character Control Unit</u>
16,384 words of core store 3 MD5 drums (49,152 words)			
9 Ampex TM2 decks 2 Magnetic tape control units	MTA to MTI	See 14.2.1	
1 Flexowriter "Z"	FLX or FLO	See 14.2.2	1
2 TR5 tape reader	TRA TRB	32 1	2 1
2 7-track teletype punches	SPA SPB	41 11	2 1
1 I.C.T. 593 card reader	CRA	224	
2 Anelex line printers (Standard)	LPA LPB	97 100	
1 I.C.T.582 card punch	CPA	103	

Spares

1 Flexowriter "Z"

14.1.4 Rothamstead Experimental Station Machine No.4

This machine is installed near Harpenden and is used mainly for statistical work.

<u>Equipment</u>	<u>Geographical Name</u>	k-bits
8192 words of core store 2 MD5 drums (32,768 words)		
3 Ampex TM2 decks 1 Magnetic tape control units	MTA to MTC	See 14.2.1
1 Flexowriter "Z"	FLX or FLO	See 14.2.2
3 TR5 tape reader	TRA TRB TRC	32 1 35
2 7-track teletype punches	SPA SPB	11 41
2 character control units		
1 I.C.T. 593 card reader	CRA	224

Spares

- 1 Flexowriter "Z"
- 1 7-track teletype punch

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14.1.5 National Provincial Bank Limited Machine No. 7

This machine is installed in London. It is used for current account book keeping and for overseas and trustee work.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>	<u>Attached to Character Control Unit</u>
8,192 words of core store 2 MD5 drums (32,768 words)			
6 Ampex TM2 decks 2 Magnetic tape control units	MTA to MTF	See 14.2.1	
1 Flexowriter "Z"	FLX or FLO	See 14.2.2	1
2 TR5 tape readers	TRA TRB	32 16	3 2
2 7-track teletype punches	SPA SPB	26 11	2 1
2 Creed 3000 punches	SPF SPG	41 25	3 2
3 character control units			
1 Anelex line printer (Standard)	LPA	97	
2 IBM 7330 Magnetic tape deck with control	ITA ITB	128 131	

Spares

1 Flexowriter "Z"  
1 TR5 tape reader

The IBM tape deck can read and write IBM tape. It is used mainly for reading IBM tape produced on an IBM document sorting system.

14.1.6 Beecham Group Limited Machine No. 6

This machine is installed at Brentford

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>	<u>Attached to Character Control Unit</u>
16,384 words of core store 3 MD5 drums (49,152 words)			
4 Ampex TM2 decks	MTK, MTL, MTM, MTO		
2 Magnetic tape control unit			
1 Flexowriter "Z"	FLX or FLO	See 14.2.2	1
2 TR5 tape readers	TRD TRE	32 35	2 2
1 7-track punch	SPC	41	2
2 character control units			
1 I.C.T. 665 Line printer (Commercial)	LPC	97	

14.1.7      Metal Box Co., Ltd.                      Machine No.8.

This machine is installed at Worcester. It is used for sales statistics, sales ledger, order analysis, tinplate stock control, payroll and scientific calculations.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>
8,192 words of core store 2 MD5 drums (words)		
6 Ampex TM2 decks 1 Magnetic tape control unit	MTA to MTF	See 14.2.1
1 Flexowriter "Z"	FLX or FLO	See 14.2.2
2 TR5 tape readers	TRA TRB	16 32
2 7-track teletype punches	SPA SPB	41 25
1 5-track teletype punch	FPC	26
3 character control units		
1 ICT 593 card reader	CRA	224
2 ICT 665 line printer (Commercial)	LPA LPB	97 98

Spares

1 Flexowriter "Z"  
1 TR5 tape reader  
1 5-track teletype punch  
1 ICT 593 card reader



14.1.8      Trygg Fylgia                      Machine No.12

This machine is installed at the Trygg and Fylgia Insurance Companies at Stockholm, Sweden, replacing their Perseus computer.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>
12,288 words of core store 2 MD5 drums (32,768 words)		
7 Ampex TM2 tape decks 2 Magnetic tape control unit	MTA to MTG	See 14.2.1
1 Flexowriter "Z"	FLX or FLO	See 14.2.2
2 TR5 tape reader	TRA TRB	32 1
1 7-track teletype punch	SPA	41
2 character control units		
1 ICT 593 card reader	CRA	224
2 Anelex line printers (Swedish)	LPA LPB	97 98
1 Electrodata deck (used as 3 devices)	EAA ECA EDA	37 42 38

Spares

1 Flexowriter "Z"

The EDU can read Pegasus, Mercury and Perseus magnetic tapes.

14.1.9      Cadbury Brothers Limited      Machine No. 10

This machine is installed at Bournville, Birmingham. It is used for stock control, sales analysis, invoicing, payroll, certain aspects of costing and raw material control.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>	<u>Attached to Character Control Unit</u>
12,288 words of core store 3 MD5 drums (49,152 words)			
7 Ampex TM2 tape decks 1 Magnetic tape control unit	MTA to MTG	See 14.2.1	
1 Flexowriter "Z"	FLX or FLO	See 14.2.2	
2 TR5 tape readers	TRA TRB	1 32	1 2
2 7-track teletype punches	SPA SPB	41 42	2 2
1 I.C.T. 593 card reader	CRA	224	
2 Anelex line printers (Standard)	LPA LPB	97 98	
Orion/1900 Link			
From 1900	TRZ	35	2
To 1900	FCZ	44	2

14.1.10 Vickers Armstrongs (Engineers) Ltd. Machine No.11

This machine is installed as Barrow. It is used for stock control, payroll, costing and later for production control.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>
8,192 words of core store 2 MD5 drums (32,768 words)		
5 Ampex TM2 tape decks 1 Magnetic tape control unit	MTA to MTE	See 14.2.1
1 Flexowriter "Z"	FLX or FLO	See 14.2.2
1 TR5 tape reader	TRA	32
1 7-track teletype punch	SPA	41
2 character control units		
1 ICT 593 card reader	CRA	224
1 ICT 665 line printer (Commercial)	LPA	97

Spares

1 Flexowriter "Z"

14.1.11      L.M. Ericssons Telefon Company                      Machine No. 9

This machine is installed at Stockholm, Swedon. It is used for production control.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>	<u>Attached to Character Control Unit</u>
16,384 words of core store 2 MD5 drums (32,768 words)			
9 Ampex TM2 tape decks 2 Magnetic tape control unit	MTA to MTH and MTK	See 14.2.1	
1 Flexowriter "Z"	FLX or FLO	See 14.2.2	1
1 7-track teletype punch	SPA	41	2
2 TR5 tape readers	TRA TRB	32 35	2 2
1 I.C.T. 593 card reader	CRA	224	
2 I.C.T. 665 line printers	LPA LPB	97 98	
1 I.C.T. 582 card punch	CPA	100	

Spares

- 1 Flexowriter
- 1 Ampex TM2 tape deck

14.2 k-bits of Peripheral Devices for Orion I machines

The k-bits are the engineers address of the device. It is an 8 bit quantity of odd parity.

14.2.1 The k-bits of magnetic tape decks for the installations are:-

Geographical Name	K-bits
MTA	64
MTB	193
MTC	194
MTD	67
MTE	196
MTF	69
MTG	70
MTH	199
MTI*	200

\*For Ericssons this is MTK

14.2.2 The k-bits of the control Flexowriter for the installations are:-

Geographical Name	K-bits
FLX (input)	4
FLO (output)	8

14.2.3 The k-bits of card readers for the installations are:-

Geographical Name	K-bits
CRA	224

14.2.4 Line printers and card punches are considered together and their k-bits are in the sequence

97, 98, 100, 103

See the appropriate sub-section of 14.1 for these.

14.2.5 The k-bits of character peripheral devices depends on the distribution of these devices on the character control units. See the appropriate sub-section of 14.1 or the following table.

The k-bits are given after the geographical name

Installation	Control Unit I	Control Unit II	Control Unit III
I.C.T. West Gorton	FLX(4) or FLO(8) TRA(1) TRB(2) SPA(11)		
I.C.T. Newman Street	FLX(4) or FLO(8)	TRA(16) SPA(26) or FPA(28) SPF(25) TRC(19)	TRB(35) TRF(32) SPB(41)
Turitz	FLX(4) or FLO(8) FCA(13) EKA(1)	TRA(16) SPA(25)	TRB(35) TRC(32) FCB(41) TRZ(37) FCZ(44)
Rutherford	FLX(4) or FLO(8) TRA(1)	TRB(16) SPA(25)	TRC(32) SPB(42)
Norwich	FLX(4) or FLO(8) TRB(1) SPB(11)		TRA(32) SPA(41)
Rothamsted	FLX(4) or FLO(3) TRB(1) SPA(11)		TRA(32) TRC(35) SPB(41)
N.P. Bank	FLX(4) or FLO(8) SPB(11)	TRB(16) SPA(26) SPG(25)	TRA(32) SPF(41)
Beechams	FLX(4) or FLO(8)		TRD(32) SPC(41) TRE(35)
Metal Box	FLX(4) or FLO(8)	TRA(16) SPB(25) FPC(26)	TRB(32) SPA(41)
Trygg-Fylgia	FLX(4) or FLO(8) TRB(1)		TRA(32) SPA(41) EAA(37) or ECA(42) or EDA(38)

Installation	Control Unit I	Control Unit II	Control Unit III
Cadbury	FLX(4) or FLO(8) TRA(1)		TRB(32) SPA(41) SPB(42) TRZ(35) FCZ(44)
Vickers	FLX(4) or FLO(8)		TRA(32) SPA(41)
Ericssons	FLX(4) or FLO(8)		TRA(32) TRB(35) SPA(41)

14.3.1 Orion II Prototype

Machine No. 36

This is at Lily Hill, Bracknell and used by Nebula Compiler team.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>
16,384 words of core store		
32,768 words of drum store		
7 Magnetic tape decks	MTA to MTG	64 to 70
1 Flexowriter "Z"	FLX	12
	FLO	13
2 paper tape readers	TRA	9
	TRB	10
1 7-track punch	SPA	11
1 Anelex printer (standard)	LPA	8



14.3.2      Prudential Assurance Company Limited      Machine No. 33

This machine is installed in London. It is used for daily updating of 1 million ordinary branch policies.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>
32,768 words of core store		
4 Sperry Type IC Drums (65536 words)		
10 Potter 120 tape decks (200 Kc/s)	MTA to MTJ	64 to 73
2 Magnetic tape control unit		
1 Flexowriter "Z"	FLX	24
	FLO	23
2 TR5 tape readers	TRA	16
	TRB	17
1 7-track teletype punch	SPA	22
2 I.C.T. 593 card readers	CRA	8 (18 interstage)
	CRB	10 (20 interstage)
2 Anelex line printers (Standard)	LPA	12
	LPB	13
1 I.C.T. 582 card punch	CPA	14

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14.3.3 Prudential Assurance Company Limited Machine No. 35

This machine is installed in London. It is used for daily updating of industrial branch policies.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>
32,768 words of core store 4 Sperry Type IC Drums (65536 words)		
10 Potter 120 tape decks (200 Kc/s) 2 Magnetic tape control units	MTA to MTJ	64 to 73
1 Flexowriter "Z"	FLX FLO	24 23
2 TR5 tape readers	TRA TRB	16 17
1 7-track teletype punch	SPA	22
2 I.C.T. 593 card readers	CRA CRB	8 (18 interstage) 10 (20 interstage)
2 Anelex line printers (Standard)	LPA LPB	12 13
1 I.C.T. 582 card punch	CPA	14

14.3.4. South African Mutual Life Assurance Society Machine No. 34

This machine is installed in Cape Town. It replaces the Perseus computer and is used for updating insurance policies

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>
16,384 words of core store		
4 Sperry Type IC Drums (65,536 words)		
8 Potter 120 Decks (200 Kc/s)	MTA to MTH	64 to 71
3 Potter 120 Decks ( 90 Kc/s)	MTX to MTZ	77 to 79
2 Magnetic Tape Control Unit		
1 Flexowriter "Z"	FLX (in)	16
	FLO (out)	15
2 paper tape readers	TRA	12
	TRB	13
1 7-track teletype punch	SPA	17
1 I.C.T. 593 card reader	CRA	10
65 and 80 columns (65 normal only)		
2 Anelex printers (Standard)	LPA	8
	LPB	9
(1 Electrodata Unit for	ECA	4
Converting Perseus tapes)	EDA	5
	EAA	6

Spares

1 Flexowriter "Z"  
1 7-Track punch

14.3.5 Beecham Group Limited Machine No. 37

This machine is installed at Brentford. It is used for sales accounting, sales analysis and stock control.

<u>Equipment</u>	<u>Geographical Name</u>	<u>k-bits</u>
16,384 words of core store 3 drums (49,152 words)		
10 Ampex TM2 tape decks 2 Magnetic tape control unit	MTA to MTJ	64 to 73
1 Flexowriter "Z"	FLX FLO	20 19
3 TR5 tape reader	TRA TRB TRC	16 17 18
2 7-track teletype punches	SPA SPB	14 15
2 593 Card Readers	CRA CRB	10 12
2 I.C.T. 665 Line Printers (Commercial)	LPA LPB	8 9

Spares

1 Flexowriter "Z"  
1 TR5 tape reader  
2 Ampex TM2 tape decks