



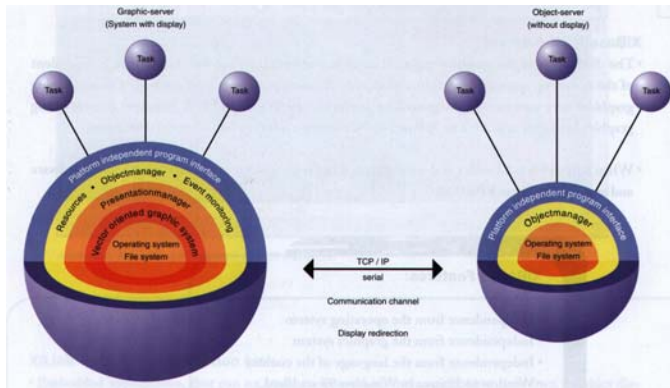
XiBase9 - Graphical User Interface for embedded OS

Corporate background



- 1986: The development of a system independent graphics server for industrial environments was started
- Target systems: OS-9, UNIX and DOS
- 1988: First implementation on an OS-9 based bare board tester and an UNIX based data preparation station
- 1989: IBM in Endicott bought first machine with XiBase9
- 1994: XiSys Software GmbH was founded
- 1998: Microware and XiSys signed distribution agreement
- 2005: Distribution agreement with RadiSys in Japan

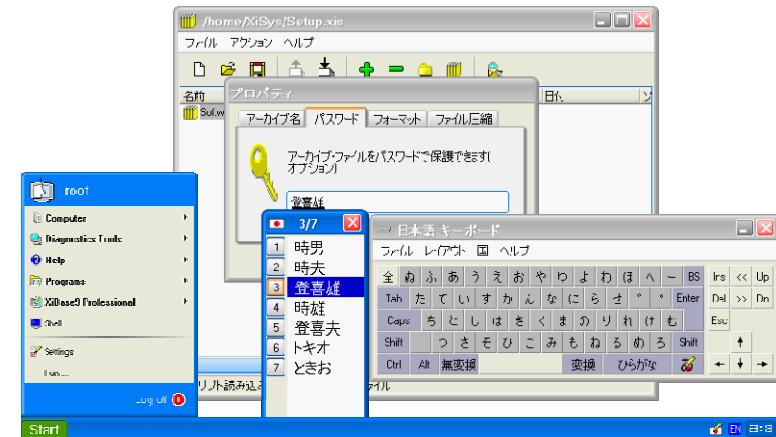
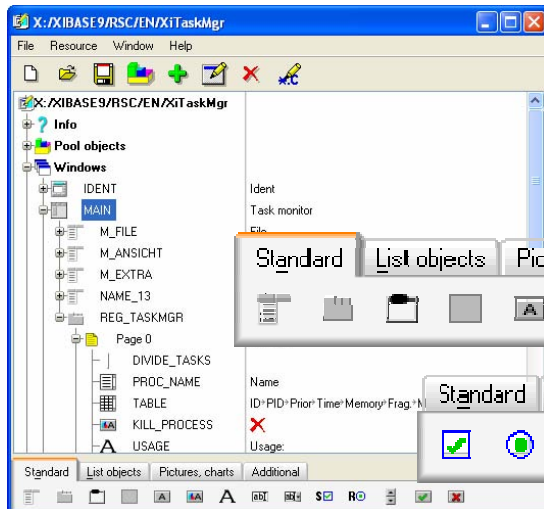
XiBase9 - Components



Runtime environment

- Local graphics engine
- Remote graphics engine

GUI Development Tools



Desktop environment

Embedded XiBase9

XiBase9 is the platform for embedded machines

XiBase9 - Virtual Machine

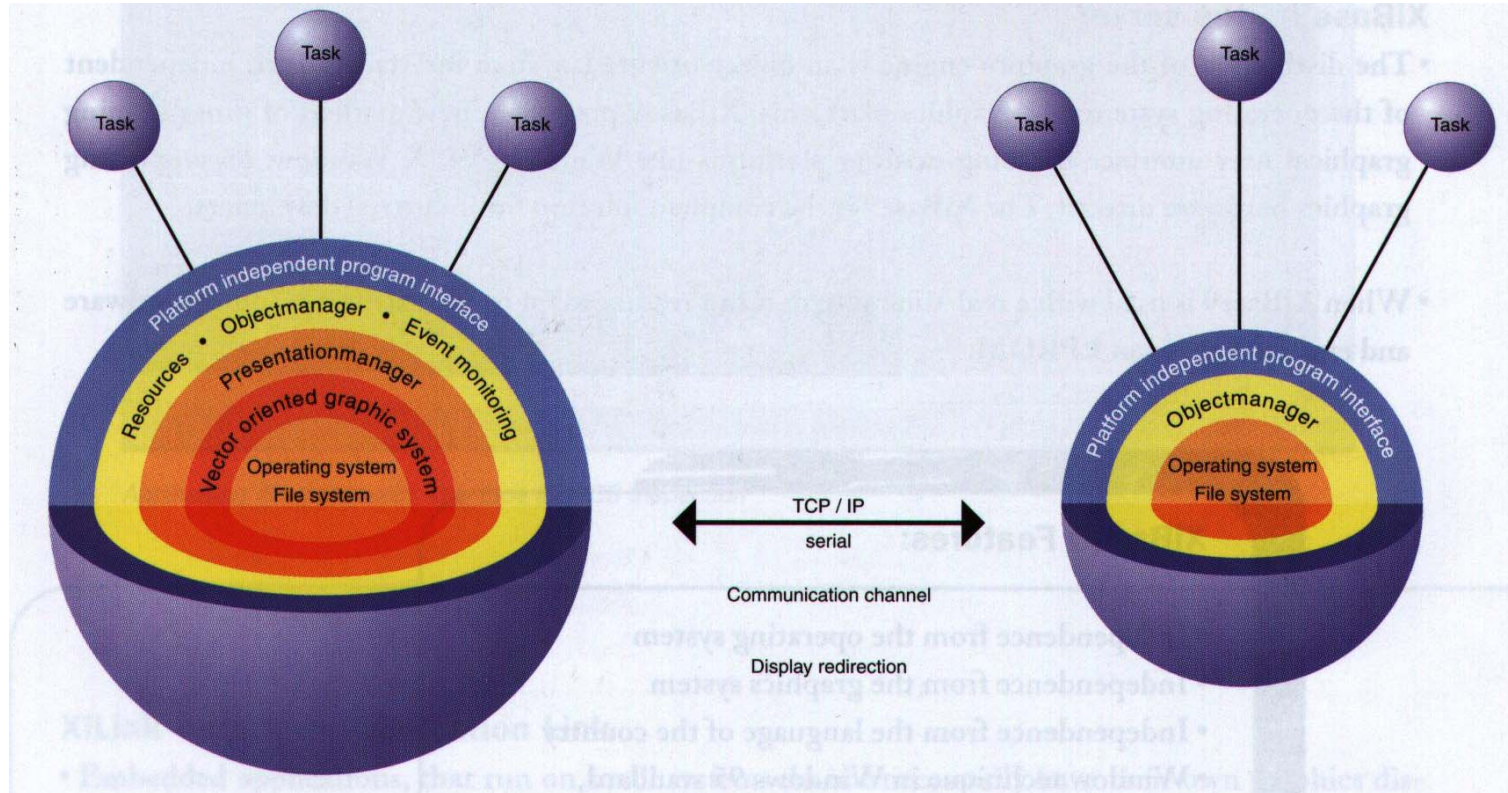


GUI Server

(display/input; local/remote; various OS)

Object Server

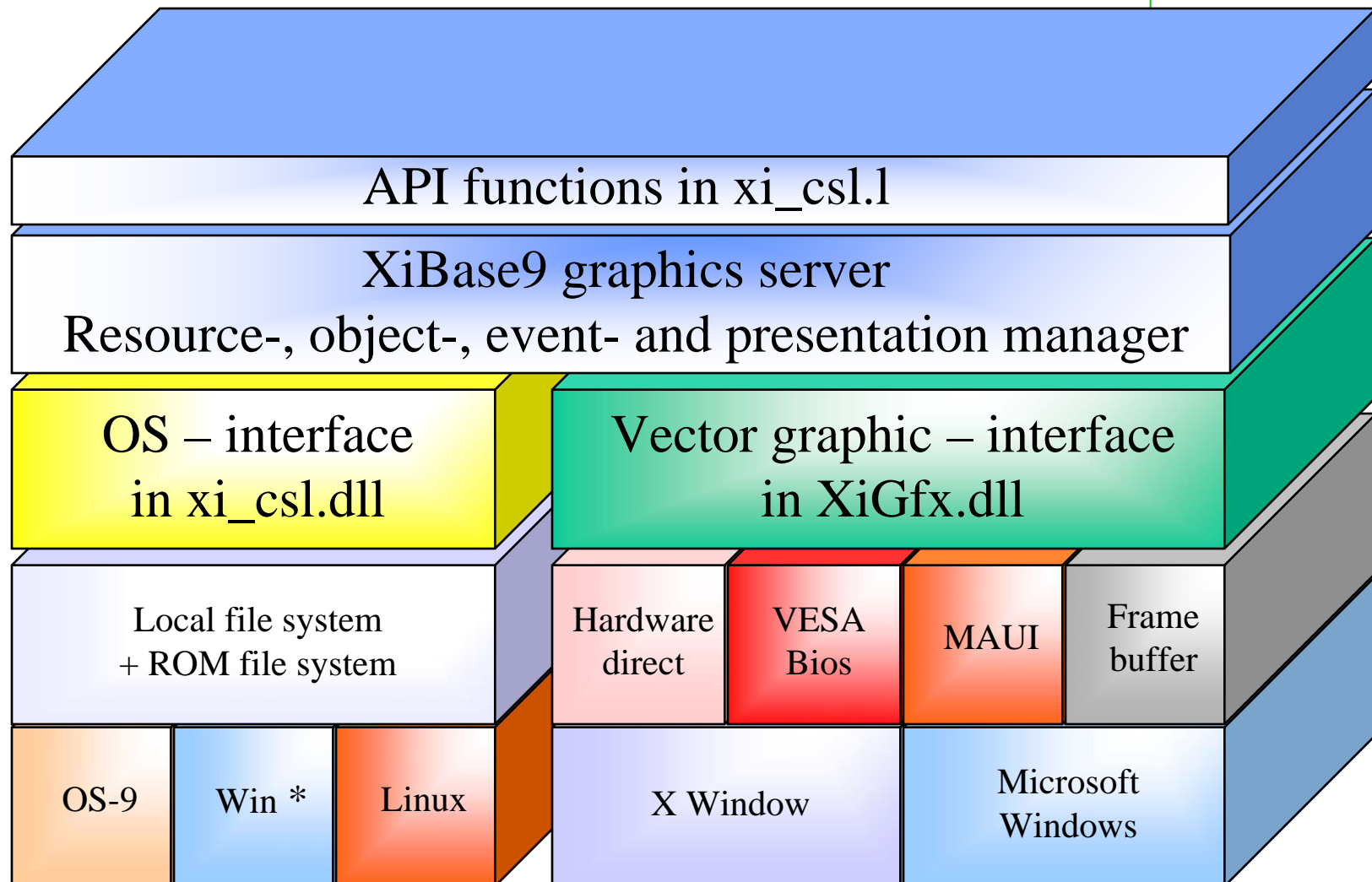
(i.e. embedded system)



Runtime environment for local and remote GUI

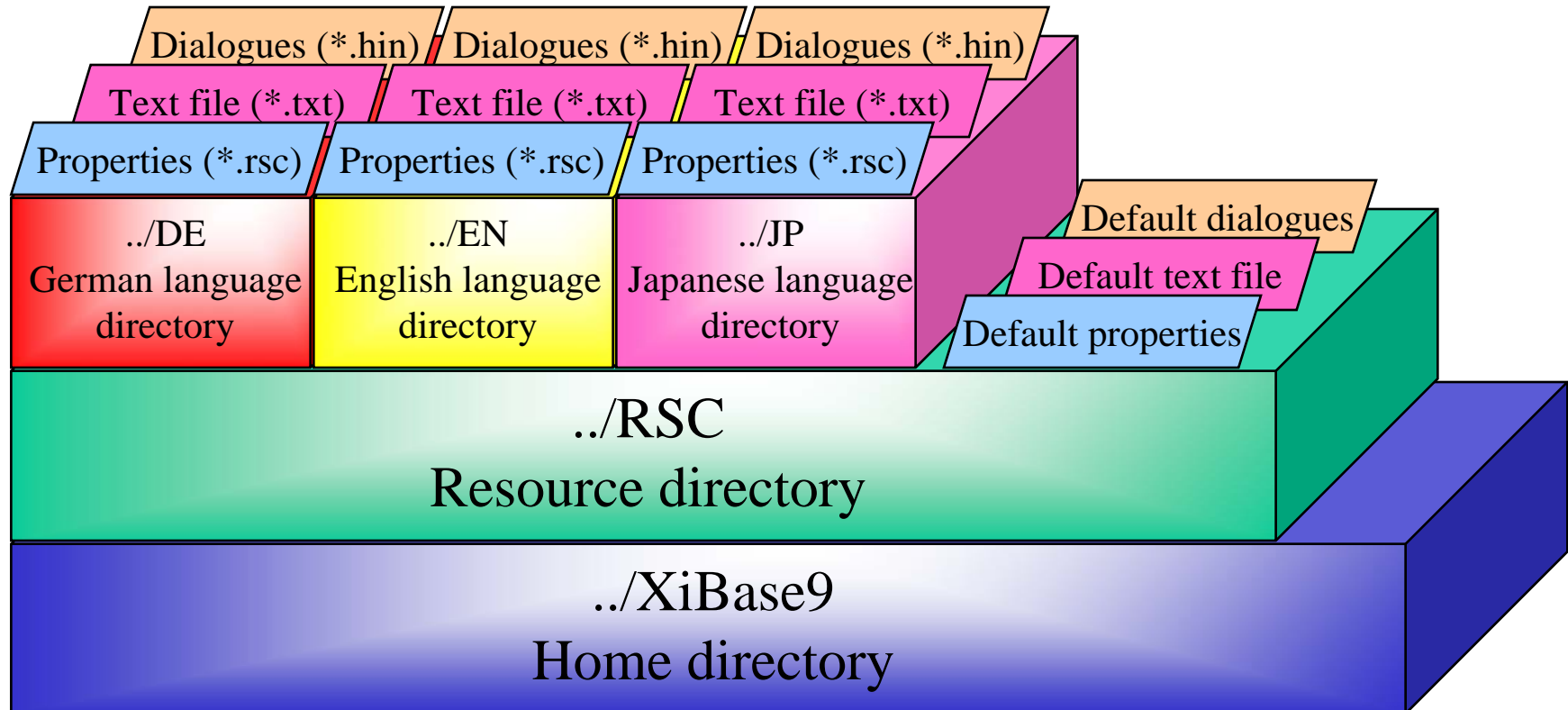


Server - interfaces



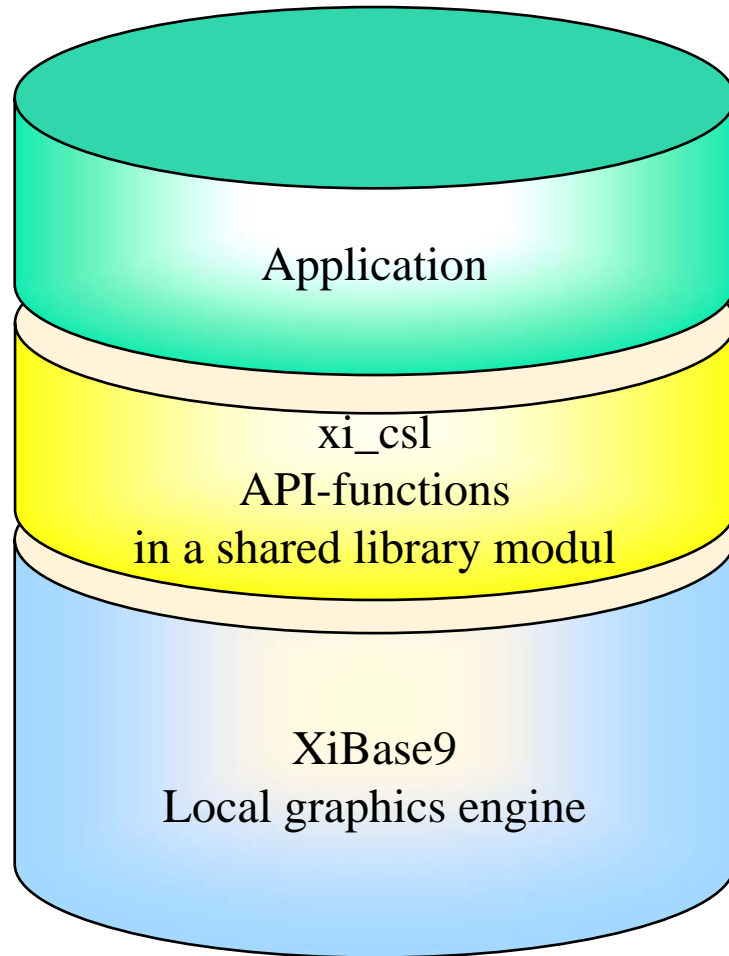


Language concept



Text information can be exchanged **without compiling or linking** the application!

Memory consumption (Local graphics engine)



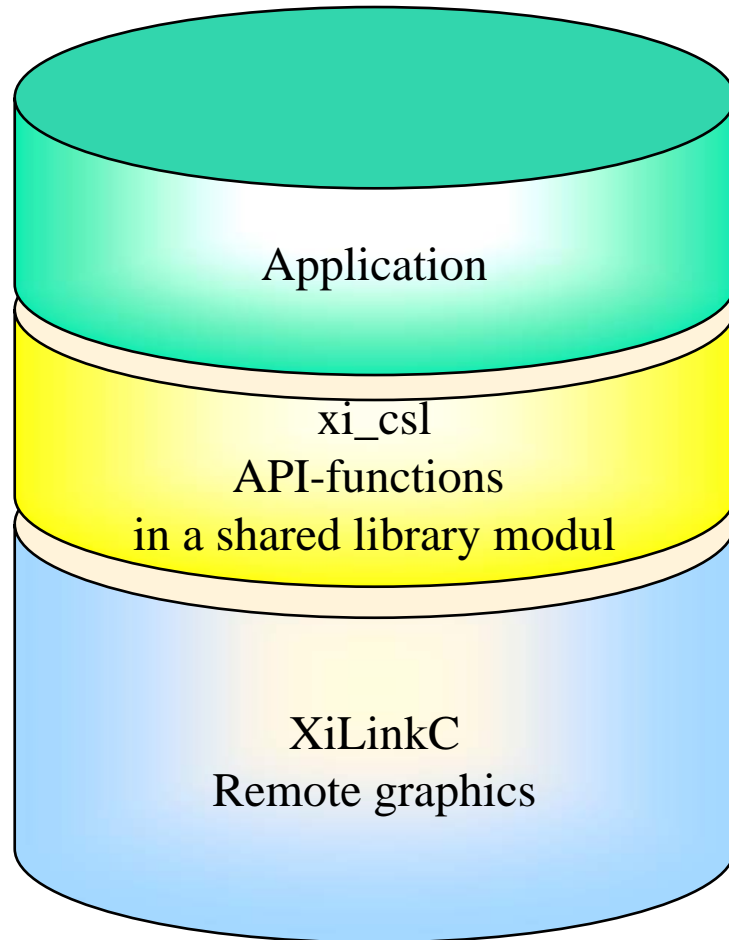
Code size: 5 k ...
Dynamic consumption: 4 k ...

Code size: 150 - 250 k
Dynamic consumption: 0

Code size: 500 - 900 k
Dynamic consumption: 200 k ...

Total consumption: \geq 1 MByte

Memory consumption (Display redirection)



Code size: 5 k ...

Dynamic consumption: 4 k ...

Code size: 150 -250 k

Dynamic consumption: 0

Code size: 100 - 150 k

Dynamic consumption: 100 k ...

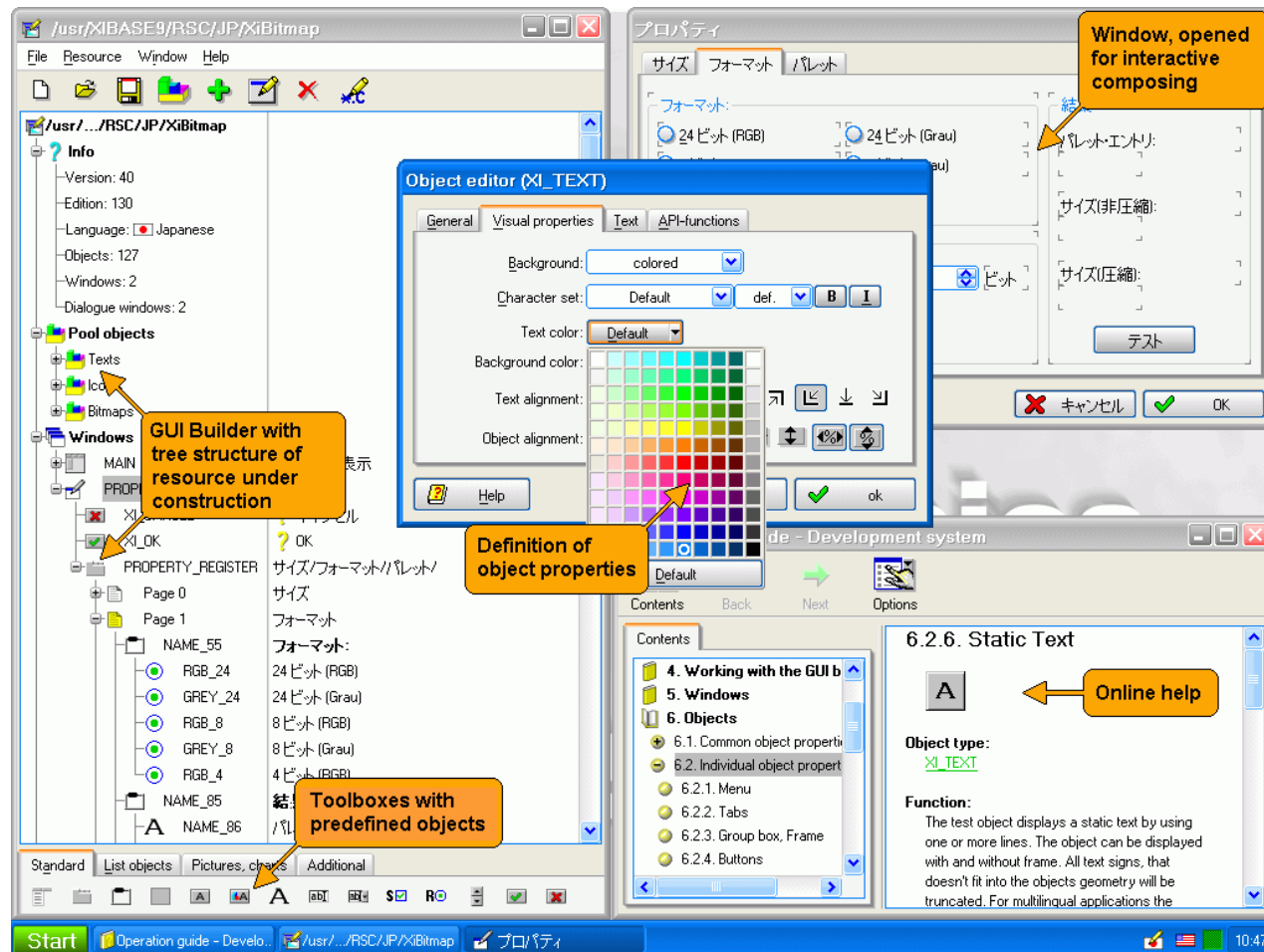
Total consumption: \geq 500 kByte

Platform support



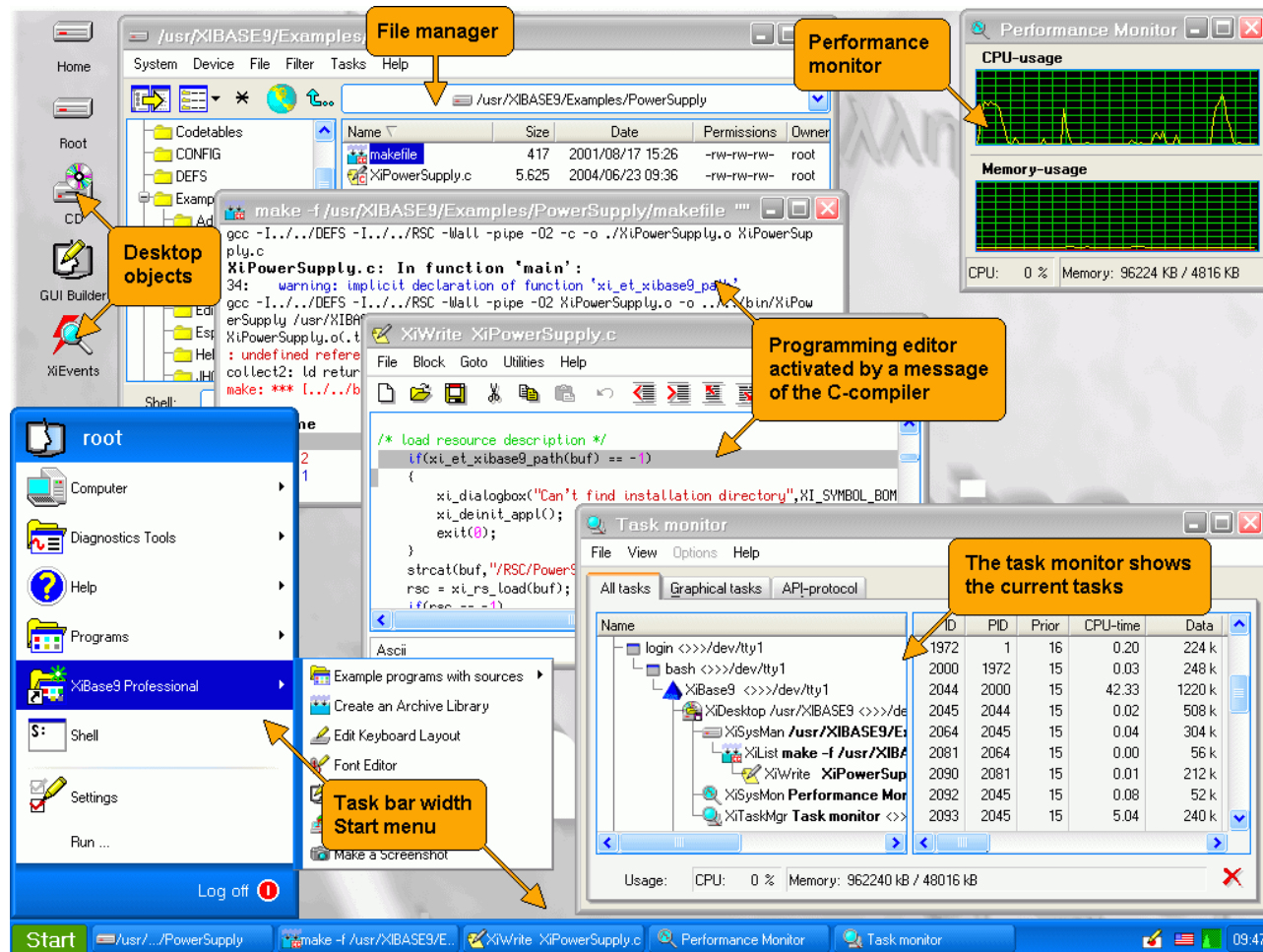
- **Operating systems**
 - Linux
 - OS-9, OS-9000
 - Win NT/2000/XP
 - Others ...
- **Graphic platforms**
 - H/W direct, VESA BIOS, Frame buffer
 - Win NT/2000/XP
 - MAUI
- **Processor architectures**
 - 68k, x86, PowerPC, SuperH, ARM/StrongARM

Development Tools



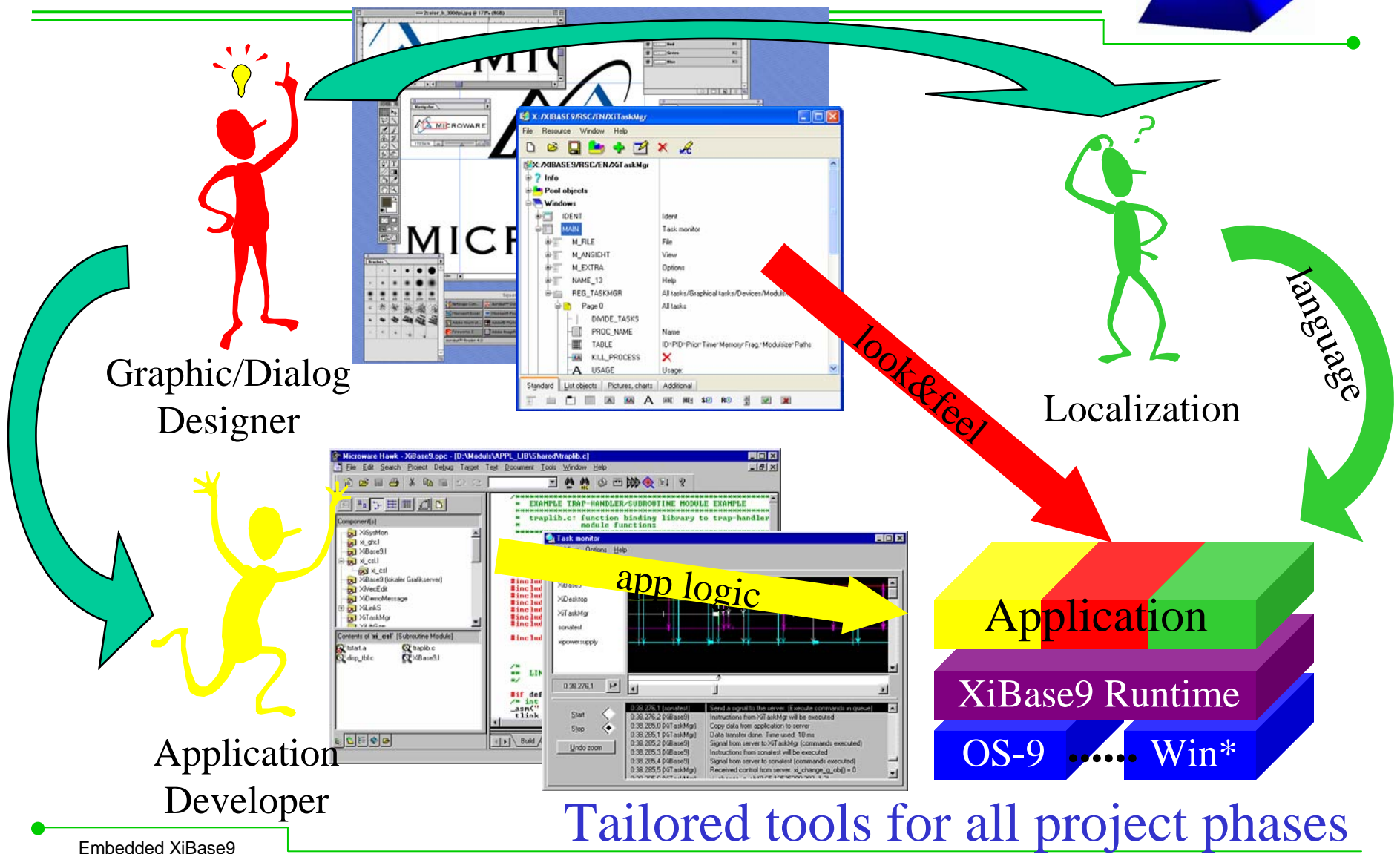
WYSIWYG GUI builder & diagnostic tools

Desktop for embedded OS

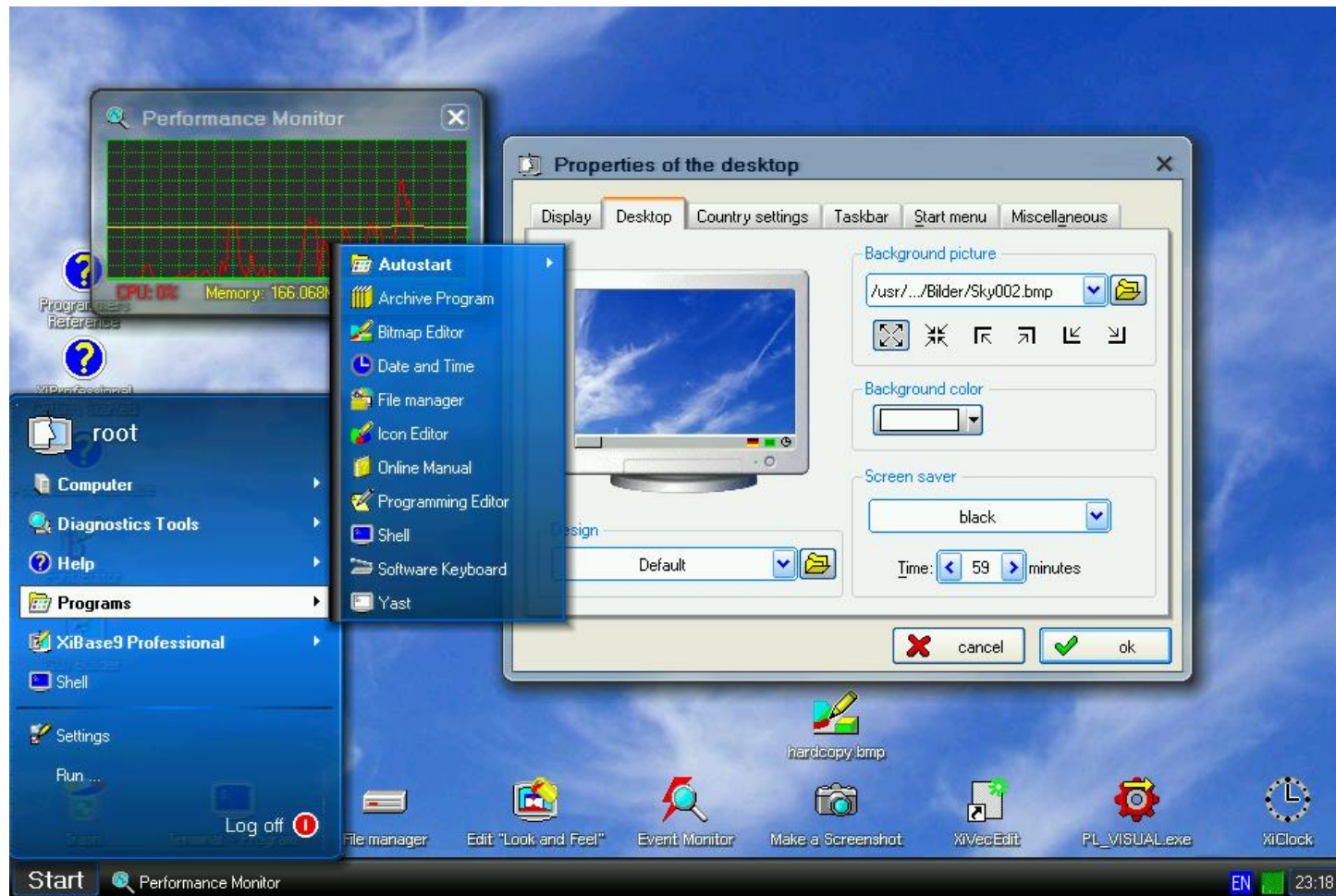


... on 2MB RAM, HDD optional

Market components



The next step



Comparison: Vista – XiBase9



	Vista	XiBase9
RAM:	>= 512 MByte	>= 8 MByte
Installation (Harddisk):	>= 8 GByte	>= 4 MByte
CPU-Speed:	>= 1 GHz	>= 100 MHz
Graphics card / bus:	AGP 8X, PCI-Exp.	Any
Video memory:	>= 64 MByte	>= 2MByte
Color resolution:	>= 32 Bits per pixel	>= 8 Bits
Accelerator:	necessary	not necessary

Highlights




- **Language concept**
- **Performance**
- **Networking and communications**
- **Remote maintenance**
- **Touch support**
- **Independence**
- **Availability**
- **Support**

Structured and simple development saves time




Applications

Automatik Messwerte



TC-Serienprüfstand



Meldungen: >>> ROBOTER ist im Handbetrieb ! <<<

Station: 1
Nest: 1

Messwerte

Prüfung Typ: 0260130035

Merkmale

Merkmal	Einheit	Messwert	TUG	TOG
1_Widerstand_20C	[mOhm]	0	4900	5600
2_Widerstand_VW	[mOhm]	0	4900	6110
3_O-Ring_vorh	-	0	1	1
1_Temp Einst_Prf	[C/10]	0	55.0	65.0
2_Einstell-Strom	[mA]	0	625	635
3_Einstell-Druck	[mbar]	0	2740	2900
4_Einstell-Fluss	[ml/min]	0	0	0
5_KL-Pruefzeit	[ms]	0	12000	17000
6_Pzu-Anz-Fehler	[mbar]	0	0	0
7_Pzu-Max-Fehler	[mbar]	0	0	0
8_KL-Anz-Fehler	-	0	0	0
9_KL-Max-Fehler	[mbar]	0	0	0
10_KL-Stg max auf	[bar/100A]	.00	13.00	18.00
11_KL-Stg max ab	[bar/100A]	.00	.00	15.00
12_KL-WP-Anz auf	-	0	0	1
13_KL-WP-Anz ab	-	0	0	1
14_Strng-Mon auf	-	0	0	0
15_Strng-Mon ab	-	0	0	0
16_Hy-Anz-Fehler	-	0	0	0
17_Hy-Max-Fehler	[mbar]	0	0	0
18_Fluss-Anz-Feh	-	0	0	0
19_Fluss-Max-Feh	[ml/min]	0	0	0
20_I_Druckpkt1auf	[mA]	0	50	150
21_I_Druckpkt2auf	[mA]	0	810	870
22_I_Druckpkt1ab	[mA]	0	50	150
23_I_Druckpkt2ab	[mA]	0	810	870
24_Fluss_Min	[ml/min]	0	0	100
25_Fluss_Max	[ml/min]	0	1100	1400

Gesamt: 0

Gut: 0

Schlecht: 0

```

==BA==HND==Shk==BnZ==BnG==PcF==MP1==EP1==EP2==EP3==EP4==P11==P12==P21==P22==P31==P32==P41==P42==
026 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000
1250 256 257 258 264
  
```

Übersicht

Station -

Station +

Toggle Nest

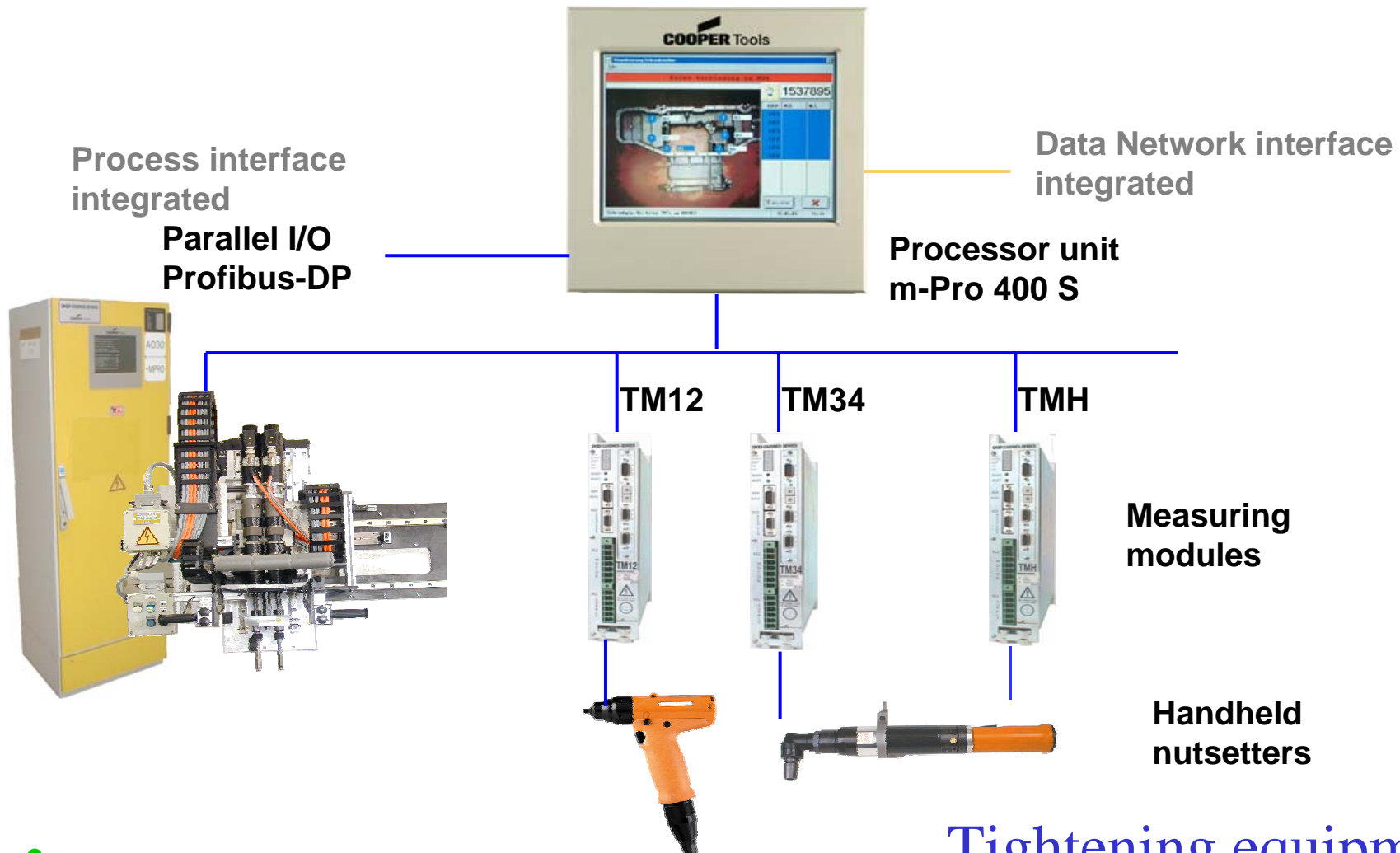
Graphik P(I)

Graphik relativ/Tol.

Leerfahrt

Statistik Reset

COOPER PowerTools



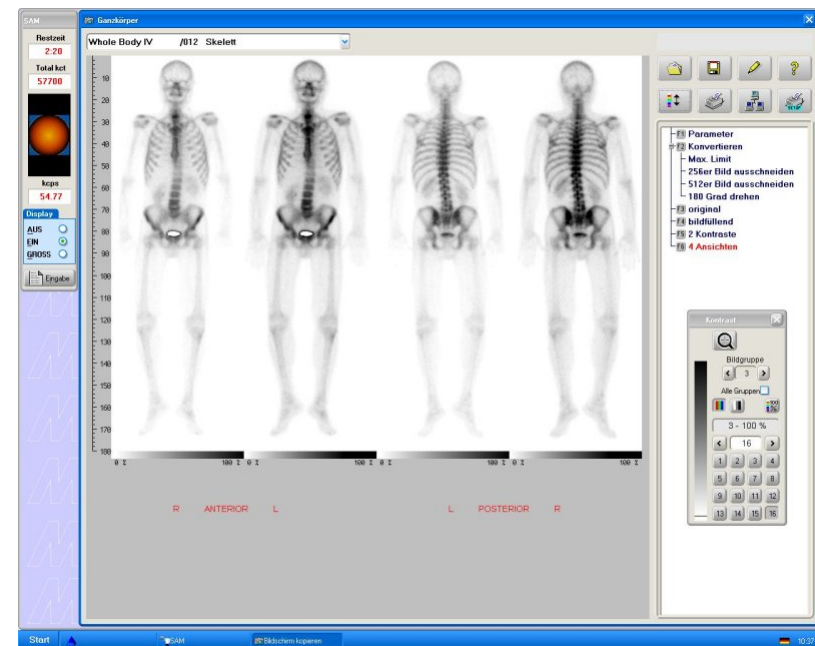
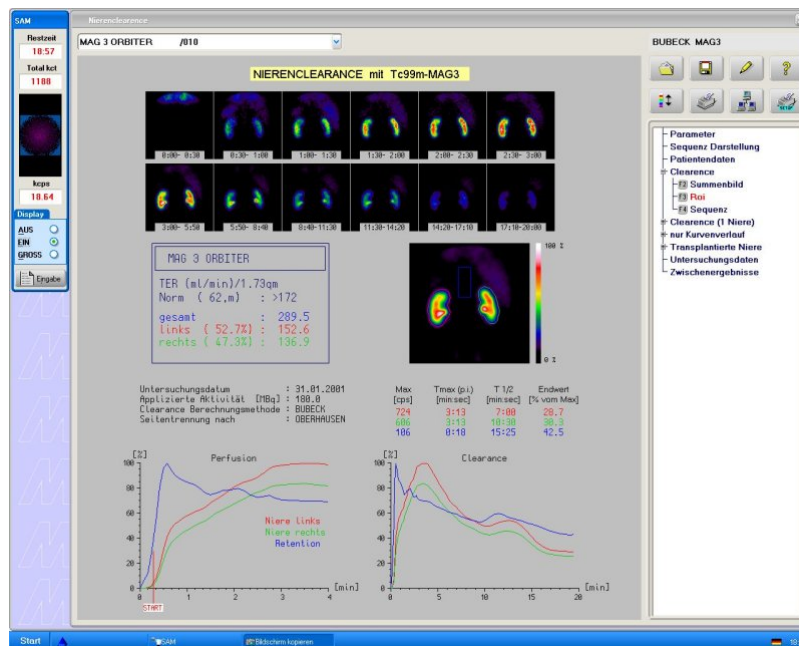
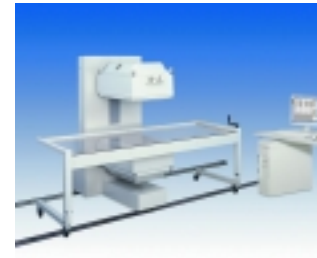
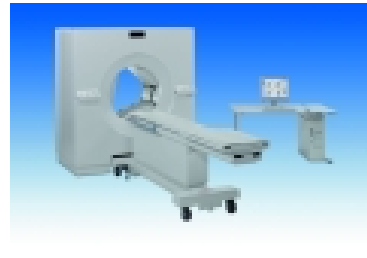
Embedded XiBase9

Tightening equipment



Weaving machines





Embedded XiBase9

Nuclear medical computer tomographs

OLYMPUS

Medical systems



VIDEO IMAGING TECHNOLOGY

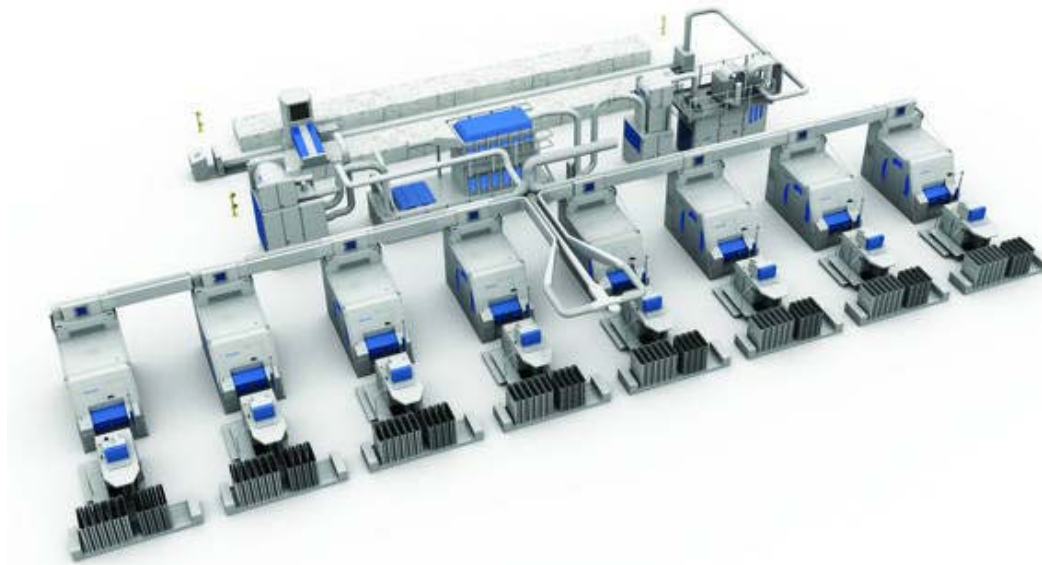


An advanced system featuring an impressive array of leading-edge video functions including structure enhancement, image size enlargement, scope ID function, digital image terminal, and much more, for high-quality, high-resolution image reproduction



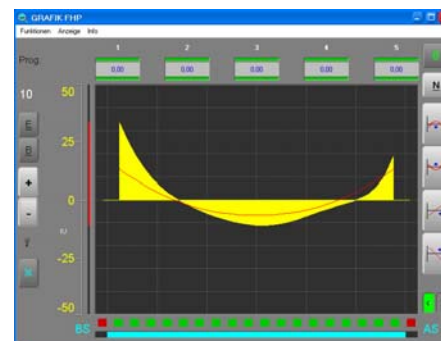
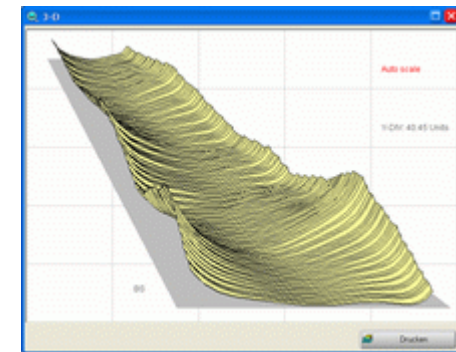
Embedded XiBase9

Endoscopes





Measurement and Control Technology



Strip thickness and roll measurement

Contact list



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