

## 16 frfbfg

^è"x,É 16 frfbfg, ,.Â,ìff[]f^,ð^—□,·,éfn[]fhfEfFfA,Ü,½,í\ftfgfEfFfA,ìŽd—l,ðŽw,·—  
pCEè□BWindows ŠÂ««,Å" @□ì,μ'P^è,ìf[]f,š—e—É,ð<α—L,·,é 16

frfbfgfAfvfŠfP□[]fvf#f",ífvfCfGf"fvfefBfuf}f<f`f^fXfN□^—□,ª,Å,«,Ü,¹,ñ□B

16 frfbfg CPU ,ìff[]f^,ð 16 frfbfg,ìfOf<□[]fv'P^Ê,Å^μ,ì,é,æ,α,É 16

frfbfg"à•"fCfWfXf^,ð"à' ,μ,Ü,·□B16 frfbfgff□[]f^fofX ,í^Ü,È,éVfXfef€fRf"f[]fif"fgŠÔ,Åff□[]f^,ð

16 frfbfg,ìfOf<□[]fv'P^Ê,Å" ]'—,Å,«,Ü,·□B16 frfbfgf[]f,šfAfhfCfXfofX,ª, ,é,ÆfRf"fsf...□[]f^,í 64KB  
,ìf[]f,š,ð'¼□ÚfAfNfZfX,Å,«,Ü,·□B16 frfbfg,Å•\,¹,é□Å'å'l,í-ñ 64000 ,¾,© ,ç,Å,·□B

### 32 frfbfg

^è"x,É 32 frfbfg, ,Â,ìff□[f^,ð□^—□,·,éfn□[fhfEjFfA,Ü,½,í\ftfgfEjFfA,ìŽd—l,ðŽw,·—pCEê□B32 frfbfg,ìfAfvfŠfP□[fvf†f",í^è"Ê,É 16 frfbfg,ìfAfvfŠfP□[fvf†f",æ,è,à□^—□'—"x,Æf□f,fŠ,ìŠÇ—□,ì"\_,Â —D,è,Ā,ç,Û,·□B

32 frfbfg CPU ,ìff□[f^,ð 32 frfbfg,ìfOf<□[fv'P^Ê,Ā^μ,ì,é,æ,α,É 32 frfbfg"à"·"f□fWfXf^,ð"à' ,μ,Û,·□B32 frfbfgff□[f^fofX ,í^Û,È,éfvfXfef€fRf"f□[fif"fgŠÔ,Āff□[f^,ð 32 frfbfg,ìfOf<□[fv'P^Ê,Ā" ]'—,Ā,«,Û,·□B32 frfbfgf□f,fŠfAfhfCEfXfofX,ª, ,é,ÆfRf"fsf...□[f^,í 4GB ^È□ã,ìf□f,fŠ,ð'¼□ÚfAfNjZfX,Ā,«,Û,·□B32 frfbfg,Ā·\,¹,é□Ā'å'l,í-ñ 4300.000 ,¾,©,ç,Ā,·□B □Ā<β,ì Windows ,ì,Û,Æ,ñ,ç,í□Ā□V,ì 32 frfbfg CPU ,ðŠ^ ,©,¹,é 32 frfbfgfIfyfCE□[fefBf"fofvfXfef€ ,Ā,·□B

fAfNfZf%ofCE[f^fL

fjf...[fRf}f"fh,ðŽÀs,·,é,½,ß,É%Ÿ,·fL[B

fAfNfZf%ofCE[f^fL[,Ífjf...[[-Ú-¼,ìCEã,ÉfjfbfR,É"ü,Á,½%°ü•t,«,ì%opŽš,Å\
,³,è,Ü,·Bfjf...[fo[,É, ,éfjf...[[-Ú,ìè±AfAfNfZf%ofCE[f^fL[,ð%Ÿ,·'O,É Alt fL[,ð
%Ÿ,·•K-v,ª, ,è,Ü,·Bfjf...[fo[.©,çhfbfvf\_fEj"fjf...[.ª\Ž|,³,è,½,çAfAfNfZf
%ofCE[f^fL[,ð%Ÿ,·,¾,¯,Åfjf...[f|fvfvfj",ðŽÀs,Å,«,Ü,·B,½,Æ,|,îAAIt{F,ð
%Ÿ,·,Æftf@fCf·fjf...[.ª\Ž|,³,è,Ü,·B,ç,Á,½,ñ,»,Ífjf...[.ª\Ž|,³,è,½,çA[i"x,í%opŽš,ì O
,ÍfL[,ð%Ÿ,·,¾,¯,ÅAf}fEfX,ÅmŠJ,(O)n,ð'l'ð,·,é,ì,Æ"-,¶CE<%oÊ,É,È,è,Ü,·B

**fAfNfefBfufEfBf“fhfE**

Œ»Ÿ'ı'đ,μ,Ä,ç,éfEfBf“fhfE□B,Ù,©,İfEfBf“fhfE,ı'Ō-Ê,É•\  
Žı,³,ê,Û,·□B'Êı□AfAfNfefBfufEfBf“fhfE,İf^fCfɡf<fo□[,ı,Ù,©,Æ^Ù,È,é□F (ffftfHf<fg,Å,ı□Ä)  
,Û,½,ı<P“x,Å•Žı,³,ê,é,İ,ÅfAfNfefBfu,Å,È,çfEfBf“fhfE,ÆŒ©•ª,ª,Ä,«,Û,·□B

## ANSI • ŽšfZfbfg

ANSI , í American National Standards Institute (•Ä‘<KŠi<|%öï) , ì—  
ª, ÅA•Ä‘, ì•W€<KŠi, ðš‘è, , é<@ŠÖ, Ü, ½, í, » , ì<@ŠÖ,ªš‘è, µ, ½<KŠi, Å, ·B“ú- {, ì JIS , É‘Š“-  
, µ, Ü, ·BANSI •ŽšfZfbfg, í•W€ [ASCII](#) •ŽšfZfbfg, ìã^ÊfZfbfg, Å, ·B

## API

Application Programming Interface ,i—ªB“Á’è,ì<@”\  
,ðŽÄs,·,é,Æ,«,ÉŽg,í,ê,é<ª’Ê,ìŠÖ” ,ÆfTfuf<[f`f” ,ìW#BMicrosoft ,É,Í Windows  
APIAWin32APIAOLE APIAMAPIATelephony API ,ðŠÜ,ß,Ä,ç,,Â,©,ì API ,ª, ,è,Ü,·B

**fAfvfŠfP[fVf+f“fEfBf“fhfE**

fAfvfŠfP[fVf+f“,ì<Æ—î^æ,Æ,μ,Ä—p^Ó,<sup>3</sup>,ê,éfEfBf“fhfE□B

**fA[fjfcfu'®«**

, ±, ìftf@fCf<'®«, Í'O%oñ, ÉfofbfNfAfbfv, ðïï¬, µ, Ä, ©, ç•ïX,ª, , Á, ½ftf@fCf<, ðŽˆ•É, ;, é, ½, ß, ÉŽg, í, ê, Ü, ·BfA[fjfcfu'®«, ìfrfbfg, ìftf@fCf<,ª%½, ©, ì•ù-  
@, ÅC³,³, é, é, Æftf@fCf<, ìffBfCfNfgfŠfGf“fgfŠ†, Å 1, ÉY'è,³, ê, Ü, ·BfA[fjfcfu'®«, ìfrfbfg, í 0  
ftf@fCf<, ìfofbfNfAfbfv, ìïï¬-Ĉě, ÉfA[fjfcfu\ftfgfEjfA, É, æ, Á, Å 0, É-ß, è, Ü, ·B



## ASCII

American Standard Code for Information Interchange (ASCII) is a character encoding standard for electronic communication. It consists of 128 unique characters, including letters, numbers, punctuation, and control characters. The characters are organized into a table where each character is assigned a unique numerical value from 0 to 127. This table is used to convert characters into binary code for transmission and storage.

## fAfZf“fuf%CE¾CEè

'á...€ ,íRf“fsf... [f^fvf[]fOf%of€CE¾CEè B,Ç,ì-½—B,à'P^è,ì<@ŠBCEè-½—B,É'Í  
%ož,μ,Ü,·BfAfZf“fuf%CE¾CEè,Å[]',ç,½fvf[]fOf%of€ ,Í C ,Ü,½,Í BASIC ,É,Ç,ì[],...€CE¾CEè,Å[]',ç  
,½fvf[]fOf%of€ ,æ,è,à^è”É,É[],'¬,Å,·B CPU ,ìŽí—p,ª^U,É,é,Æ%ođŽB,·é<@ŠBCEè-½—  
B,ª^U,É,é,ì,Å[]A1 ,Å,ì<@Ží,íRf“fsf... [f^,½,B,É[],©,è,½fAfZf“fuf%CE¾CEè,ífvf[]fOf%of€  
,đ^U,É,é<@Ží,íRf“fsf... [f^,ŽŽÅ[]s,·,é,É,ífvf[]fOf%of€,đ[],«¼,·K—v,ª ,è,Ü,·B

## "ň"~Šú

f^fCf}}[][, ©,ç"Æ—š,μ,Äi□s,·,é'€□□B,½,Æ,i,î□Af,fff€,δ'Ê,μ,Ä,ì"ň"~Šú'Ê□M,Åf,fff€,í'—  
□M,²,Æ,ÌŠŽn□M□t,Æ□l—¹□M□t (fXf^□[fgfrfbfg,ÆfXfgfbfvfrfbfg) ,ÉŠî,Ä,č  
,Äff□[f^ÆđŠ,ì•à'²,đ,Æ,è,Û,·□B

## Ž“®f}fEf“fg

fffBfXfN,đ<sup>3</sup>□k,μ,½ê□#□AfffBfXfN,É“ü,Á,Ä,ç,éftf@fCf<,í^ê□□,É^3□k,³,ê□u^3□kf{fŠf...  
□[f€□v,ÆCEÄ,î,ê,é“Á•Ê,ì%°B,μftf@fCf<,Æ,μ,ÄŠi”[,³,ê,Ü,·□B^3□kf{fŠf...□[f€,<sup>a</sup>f}fEf“fg,³,ê,Ä,ç,È,ç  
,Æ,«,í□A’P,ÉfzfXfgfhf%ofCfu□ă,í’ă,«,ç%°B,μftf@fCf<,Æ,μ,Ä•\Z|,³,ê,Ü,·□B^3□kf{fŠf...□[f€  
,<sup>a</sup>f}fEf“fg,³,ê,é,Æ□AflfyfCE□[fefBf“fOjVfXfef€,í,±,ê,đ<sup>3</sup>□kfffBfXfN,Æ”FZ<sup>-</sup>,μ,Ä□A<sup>fzfXfgfhf</sup>  
%ofCfu,©,ç“Æ—š,μ,½•Ê,ìfffBfXfN,Æ,μ,Ä^μ,ç,Ü,·□B  
^3□kf{fŠf...□[f€,đŽ“®“l,Éf}fEf“fg,·,é,æ,π,ÉfVfXfef€,<sup>a</sup>□Y’è,³,ê,Ä,ç  
,é□ê□#□A^3□k,³,ê,½ftf□fbfs□[fffBfXfN,íŽ“®“l,É”FZ<sup>-</sup>,³,ê□AfffBfXfNfhf  
%ofCfu,É’}“ü,·,é,Æf}fEf“fg,³,ê,Ü,·□B

## AUTOEXEC.BAT


**Windows 98/Me:** fRf“fsf...[]f^,^N“®,. ,é,ÆŽ©“®“l,ÉŽÀ[]s,^,é,fRf}f“fh,^“ü,Á,Ä,ç  
,é,fofbf`ftf@fCf[]B’É[]í[]AAUTOEXEC.BAT ,ifRf}f“fh,í PATH ŠÁ««•í[]” ,đ[]Y’è,μ[]ADOS  
fvf[]f“fvfg,İŠOŠİ,đCE^’è,μ[]ATSR ,đŠjŽn,μ[]AfRf“fsf...[]f^,í<N“®Žž,ÉŽÀ[]s,μ,È, ,è,Î,È,ç,È,ç  
,>,í^1/4,İfvf[]fOf%of€,đŽÀ[]s,μ,Ü,·[]B


## fofbfNfOf%oEf“fh


fofbfNfOf%oEf“fh, ÅŽÀs, 3, è, é□^—□, íftHfAfOf%oEf“fh, ÅŽÀs, 3, è, é□^—□, æ, è, à, á, ç”ä—|, Å [CPU](#),  
, l□^—□ŽŽŠÓ, ðŽó, Žæ, è, Ü, ·□B

ffftHf, fg, Å, íAftHfAfOf%oEf“fh, ÅŽÀs, 3, è, éfAvfŠfP□[fVf#f“, íRf“fsf...□[f^, í^èŽŸf^fXfN, Å, , è□A  
Žc, è, lŽÀs’t, lfAvfŠfP□[fVf#f“, æ, è, à□, , ç”ä—|, Å [CPU](#), l□^—□ŽŽŠÓ, ðŽó, Žæ, è, Ü, ·□BfofbfNfOf  
%oEf“fh, lfAvfŠfP□[fVf#f“, íAftHfAfOf%oEf“fhf^fXfN, l□^—□, í’â”•a, a—Ž, í’...,,Æ CPU  
, ©, ç, »,, lfAfef“fVf#f“, ðŽó, Žæ, è, Ü, ·□B

Windows NT/2000/XP , Å, íftHfAfOf%oEf“fh, ÆfofbfNfOf%oEf“fh, lf^fXfN, ÉŠ,,, è“—, Ä, é’Š’í“l, È□^—  
□fAfef“fVf#f“, ð•í□X, Å, «, Ü, ·□B

 **Windows NT:** fRf“fgf□□[f<fpf|f<, l□mfVfXfef€□n, Å□mfptfH□[f}f“fX□nfy□[fW, ð•\  
Ž!, μ, Å□mfAvfŠfP□[fVf#f“, l□^—□—D□æ“x□nfOf<□[fv, É, , éfXf%oEfCf\_□[, ð“®, ©, μ, Å’²□®, μ, Ü, ·□B□A

 **Windows 2000:** fRf“fgf□□[f<fpf|f<, l□mfVfXfef€□n, Å□m□Ú□x□nfy□[fW, ð•\  
Ž!, μ, Å□mfptfH□[f}f“fXf|fvfVf#f“(P)□n, ðfNfŠfbfN, μ, Ü, ·□B

 **Windows XP:** fRf“fgf□□[f<fpf|f<, l□mfptfH□[f}f“fX, Æf□“fefif“fX□n, Å□mfRf“fsf...  
□[f^, lŠî—{“l, È□î•ñ, ð•\Ž!, , é□n, ð’l, N□A□mfVfXfef€  
, lfVf□fpfefB□nf\_fCfAf□fOf{fbfNfX, Å□m□Ú□x□Y’è□nfy□[fW, ð•\  
Ž!, μ, Å□A□mfptfH□[f}f“fX□nf{fbfNfX, l□m□Y’è□n, ðfNfŠfbfN, μ□A□mfptfH□[f}f“fX, lfVf□fpfefB□nf\_  
fCfAf□fOf{fbfNfX, l□m□Ú□x□Y’è□nfy□[fW, ð’l’ð, μ, Ü, ·□B

Šî-{"ü□o—ÍfVfXfef€

## fofbf`ftf@fCf<

fIfyfCE[fefBf"fOfVfXfef€,ì 1 ,Â^Èä,ìfRf}}f"fh,ð—

ñ<L,μ,½fefLfXfgftf@fCf<Bfofbf`ftf@fCf<,ìfVfXfef€,É,æ,Á,Ä (AUTOEXEC.BAT ,ì,æ,α,É)

Ž©"®"l,ÉŽÀs,³,ê,é,©A,Û,½,ÍDOS fvff"fvfg,Åftf@fCf<-¼,ð"ü—

í,μ,ÄŽè"®,ÄŽÀs,μ,Û,·Bfofbf`ftf@fCf<,ðŽÀs,·,é,ÆAfRf}}f"fh,ª±,ÉŽÀs,³,ê,Û,·BDOS

ŠÄ<<%º,Ä,ìfofbf`ftf@fCf<,É,í .BAT ,Æ,ç,αŚg'£Žq,ª•t,«,Û,·B



## f{[fCE[fg

ff[f^“`‘—,ì’—“x,đ•\,·,Æ,«,ÉŽg,κ—pCEê,Å□A’Ê□í,íj,fff€,ì’—,³,đŽw,μ,Û,·□Bf{□[fCE□[fg,í 1 •b“-  
,½,è,ì□M□t,ì•í%o»,ì%oñ□”,đŽw’è,μ,Û,·□B^ê”Ê,Éf{□[fCE□[fg,í bps  
,ì”~<`CEê,Æ,μ,ĂŽg,í,ê,Û,·,ª□A,»,ì,æ,κ,ÉŽg,ç•û,í•s□³Šm,Å,·□B1 %oñ,ì□M□t,ì•í%o»,ª 1  
frfbfg,ìff□[f^,đ•\,·,±,Æ,à, ,è,Û,·,ª□ACE»□Ý,ì□,‘—’Ê□M,Å,í 1 %oñ,ì□M□t,ì•í%o»,ì’Ê□í 1  
frfbfg^Ê□ã,đ•,□t%o»,μ,Û,·□B

**BBS**

Bulletin Board System , ì—ª□Bf,fff€,É,æ,Á,ÄVfXfef€,É□Ú'±,µ,Ä,ç,éft□[fU□[ŠÔ,Åf□fbfZ□[fW'—  
□M□A“dŽqf□□[f<□Aftf@fCf<“]’—,ª,Å,«,élf“f%ofCf“fT□[frfX□B

**fxf`f}[]fN**

f\ftfgfEjFfA,Ü,½,Ín[]fhfEjFfA,ì^—[]¬“x,ð‘a’è,·,éfefXfg[]B

**frfbfg**

fofCfifŠ,Ä,Ü,è 2 □i□",ì 1 Œ...Ä, ,è□Afrf"fsf...□[f^,Ä□^—□,·,é□î•ñ,ð•\,·□Ä□¬'P^Ê□B1 frfbfg,Í 0 ,Æ  
1 ,ì,Ý,ð<L%¯,·,é 2 □i-@,ÉŠî,Ä,ç,Ä□î•ñ,ð•\,μ,Ü,·□B

## BIOS

Basic Input /Output System , à—□Bf□f,fŠ□AfffBfXfNfhf%ofCfu□AfffBfXfvfCEfC,È,ÇfRf“fsf...  
□[f^,ìfRf“f|□[flf“fg,ìŠÖ,Å,ì□î•ñ,ì“]’—,ðfTf]□[fg,·é,½,ß,ìf<□[f`f“,ðŠi”[,·éfRf“fsf...  
□[f^,ìfTfufVfXfef€□BPC ,ìVfXfef€ BIOS ,ì **ROM** ,ÉŠi”[,³,ê,é,ì,Å ROM BIOS ,Æ,ç,ç,Ü,·□B

**fufbfN**

1 ,Â,î'P^Ê,Æ,μ,ÄffBfXfN,Æ,ÌŠÔ,Å“Ç,Ý□',«,<sup>3</sup>,ê,é^ê~A,iff□[f^,ì□W,Ü,è□B

## fu[fgfCfR[fh

ftf[fbfs[fffBfXfN, i[Å%o, i• - [fZfNf^, Ü, ½, ífn[fhfffBfXfNfp[feBfVf#f“, i[Å%o, i~ -  
[fZfNf^ [BfffBfXfN, íA[fLfefNf`ff (fZfNf^fTfCfY[AfNf%ofXf^fTfCfY, É, Ç) , ðŽ`•É, µ, Ü, ·[Bfu[fq  
%oÅ“\, ÈfffBfXfN, ífu[fgfCfR[fh, É, ífífyfC[fefBf“fOfVfXfef€, ðf[fh, ·, éfu[fqfXfgf  
%ofbfvf[ [f\_ [ , à“ü, Á, Ä, ç, Ü, ·[Bfu[fgfCfR[fh, ífffBfXfN, ífu[fqfZfNf^, ÉŠi“[, , é, Ü, ·[B  
, Ç, i~ - [fffBfXfN, É, à 1 , Á, ífu[fgfCfR[fh, , è[Afu[fgfCfR[fh, ífffBfXfN, i~ - [ [ , É• - [ [ \  
[ - , É, Á, ç, Ä, iŽY, i[î•ñ, ðŠi“[, µ, Ü, ·[B

- fZfNf^“- , ½, è, ífofCf [ ]
- fNf%ofXf^ , íTfCfY (fNf%ofXf^“- , ½, è, íZfNf^ [ ])
- fffBfXfN [ ä , íZfNf^ [ ]
- fgf%ofbfN“- , ½, è, íZfNf^ [ ]
- fffBfXfN, í-É [ ]
- }‘i<L [ qfofCf [ ]

## fu[fqfZfNf^

fu[fqfZfNf^,đŠi”[,·,éZfNf^Bfu[fqfZfNf^,íftfbfs[fffBfXfNä,ìÅ%,ì•—  
fZfNf^,Ü,½,í~—ffBfXfN (fn[fhfffBfXfN,fp[feBfVf#f“)

,İJZnfZfNf^,Å,·Bfu[fqfZfNf^,íffBfXfN,İfA[fLfeNf`ff (fZfNf^fTfCfYAfNf%fXf^fTfCfY,È,Ç)

,đZ·É,μ,Ü,·Bfu[fq%oÅ^,ÈfffBfXfN,İfu[fqfZfNf^,É,İfıyf[feBf“fOfVfXfef€

,đf[fh,·,évf[fOf%f€,à“ü,Á,À,ç,Ü,·B



**fu [fg%oA" \fffBfXfN**

fRf"fsf... [f^, ð<N" ®, ·, é, ½, ß, É•K—v, ÈfVfXfef€ftf@fCf<,ª"ü,Á,Ä,ç,éfffBfXfN□B□Å<ß, ðfRf"fsf...  
□[f^,É, ðfRf"fsf... [f^, ð<N" ®, ·, é, Æ, «, ÈŽg, í, ê, éfu□[fg%oA" \, Èfn□[fhfffBfXfN,ª, ,è,Ü,·,ª□A' Èí□ufu□  
[fg%oA" \, ÈfffBfXfN□v, Æ, Í□A, à, µfn□[fhfffBfXfN,ª'¹ŠQ, ðŽó, ¯, ½Žž, ÈfRf"fsf...  
□[f^, ð<N" ®, ·, é, ½, ß, ÈŽg, !, éftf□fbfs□[fffBfXfN, ì, ±, Æ, ð, ç, ç, Ü, ·□B

**fu[]f[]g[]f[]X[]f[]g[]f[]%[]f[]b[]f[]v[]f[][]f[]\_[]f[]**

fu[]f[]g[]%[]^[]\[]f[]f[]B[]f[]X[]f[]N[],\[]f[]u[]f[]g[]f[]C[]f[]R[]f[]h[],É“ü,Á,Ä,ç,ÄfRf“fsf...

[]f[]^[],i,N“@Žž,Éf[]f[]y[]f[]C[]f[]f[]e[]f[]B[]f[]“f[]O[]f[]V[]f[]X[]f[]e[]f[]€,đf[][]f[]h[],,é[]¬,³,çf[]v[]f[]f[]O[]f[]%[]f[]€[]B

“dŽqŒfŽ;”ÂfVfXfef€



## fofX

CPU A“üo—Í|[]fg[]Af[]f,fŠ,È,ÇfRf“fsf...[]f^,ì^Ù,È,éfRf“f[]f[]fg,ðÚ’±  
,·,é“dŽqf`fff[]f<,lfVfXfef€[]B

f{f^f"fo

fAfvfŠfP[fVf#f",ìfif...[fo],ì^%º,É, ,éf{f^f",i•À,ÑB€-  
Ú,ìRfs[A^Ú"@AíœA^ê'è,ìi•ñ,i\Ži,É,ÇA'Á'è,ìf^fXfN,ðŽÀs,Å,«,Ü,·B

**fofCfg**

8 ĆÂ,ifrbfg,Å\□-,<sup>3</sup>,é,Rf“fsf...□[f^,ìî•ñ,ìP^Ê□B'Êí□A1 fofCfg,í”¼Šp%op□”Žš<L□t,ì 1  
•¶Žš,É‘Š“-,:.éff□[f^,ðŠi”[,μ,Ü,·□B

**fLffffbfVf...**

fRf“fsf...[]f^,ì‘S’ì“l,È□^—□’—“x,ðŒü□ä,·,é,½,ß,Éff□[]f^,Ü,½,ífvf□[]Of%of€-½—ß,ð^èŽž“l,É<L  
%o~·,éRf“fsf...[]f^,ì“Á•É,Èf□f,fŠfTfufVfXfef€□B,Ù,Æ,ñ,Ç,ífLffffbfVf...,ífRf“fsf...[]f^,ì•W□€<L  
%o~^æ (fffBfXfN,Ü,½,í RAM) ,©,çff□[]f^,ð CPU ,Å,à,Á,Æ’—,fAfNfZfX,Å,«,éŽí—p,ì<L  
%o~^æ,ÉfRfs□[],μ,Ü,·□B^è•”,ífLffffbfVf...,í‘Ò<@—p,ì<L%o~^æ,Éff□[]f^,ð•Ü,¿□ACPU  
,ð^¼,íf^fXfN,ì,½,ß,É%oð•ú,μ□ACPU ,ífAfCfhf<Žž,É,ì,Ý,»,íf□[]f^,ð□’,«□ž,ß,Ü,·□B  
fffBfXfNfLffffbfVf...,í”ñ□í,É□,’—,È CPU ,Æ’á’—,ÈfffBfXfNfhf%ofCfu,ìŠÔ,É, ,é’—“x,ì,,é,ð•â,æ,æ,æ,  
,É□YŒv,³,é,Ä,ç,Ü,·□B“à•”f□f,fŠfLffffbfVf...,ÆŠÔ•”f□f,fŠfLffffbfVf...,í CPU ,Æ’á’—,È RAM  
f`fbfv,ìŠÔ,É, ,é’—“x,ì,,é,ð•â,æ,æ,æ,É□YŒv,³,é,Ä,ç,Ü,·□B



**fLfffbfVf...fRf“fgf[]f%o**

fLfffbfVf.... ,ì“@[]ò,ð[]§CEä,·,é‘·‘u[]B“à•”f[]f,fŠfLfffbfVf...[]AŠO•”f[]f,fŠfLfffbfVf...  
[]A^ê•”,ìffBfXfNfLfffbfVf... ,ìfLfffbfVf...fRf“fgf[]f%o,ìfn[]lfhfEfFfA%oñ~H,Æf\  
ftfgfEfFfA,ð‘g,Ý[]‡,í,¹,ÄŽg,ç,Û,·[]B,» ,ì¹¼,ìffBfXfNfLfffbfVf... ,ìfRf“fgf[]f%o (VCACHE[]AWindows  
,ìffBfXfNfLfffbfVf... ,È,Ç) ,ìf\ftfgfEfFfA,ì,Ý,ðŽg,ç,Û,·[]B

**fLffbfVf...fqbfq—!**

CPU ,<sup>a</sup>—v<□,μ,½ff□[f^ ,<sup>a</sup>fLffbfVf... ,É, ,é,Æ,« ,ì”ä—!□BfLffbfVf...fqbfq—!,<sup>a</sup>□,ϕ,Æ CPU  
,<sup>a</sup>ff□[f^ ,ð,·,î,â,fAfNfZfX,Å,« ,é,ì,ÅfRf“fsf...□[f^ ,ì^—□’¬“x,<sup>a</sup>CEü□ã,μ,Û,·□B

**fLfffbfVf...f~fX—!**

**CPU**, <sup>a</sup>—v<□, μ, ½ff□[f^, <sup>a</sup>**fLfffbfVf...**, É, È, **fffBfXfN**, Ü, ½, Í **RAM**, ©, çŽæ, è□o,<sup>3</sup>, È, ¯, ê, î, È, ç, È, ç, Æ, «, ì"ä  
—!□BfLfffbfVf...f~fX—!, <sup>a</sup>□, ç, ÆfLfffbfVf..., ïff□[f^, ðŽg, !, é□ê□‡, É"ä, x, ÅfRf"fsf...□[f^, ì□^—  
□'—"x, <sup>a</sup>'á%°°, μ, Ü, ·□B

## CD-ROM

Compact Disk Read-Only Memory, í ŽŸ<CffBfXfN, Æ“ˆ, ¶, æ, x  
, Éff[f^, ðŠi”[. . éfŠf€[f ofuf<fffBfXfN, Å, ·B, ½, ¾, μACD-ROM, í ŽŸ<C“I, É, Å, í, È, -  
ŒöŠw“I, Éff[f^, ðŠi”[. μAfŒ[fU[f r[f€ , ðŽg, Å, Å“Ç, ÝŽæ, è, Û, ·B, ç, Á, ½, ñ CD-ROM  
, É<L~^, μ, ½ff[f^, íÁ<Ž, Û, ½, í‘, «’¼, μ, Å, «, Û, ¹, ñBCD-ROM, í Žâ, Éx—p, íA  
ftfgfEjFfA, ð”z•z, ·, é, ½, ß, ÉŽg, í, ê, Û, ·B

## CD-R

Compact Disk-Recordable, è un tipo di disco ottico (CD) che può essere scritto una volta e letto più volte. È comunemente usato per archiviare dati e software. I CD-R sono spesso utilizzati per creare copie di backup o per distribuire software. I CD-R sono disponibili in formati standard (120 minuti) e mini (80 minuti). I CD-R sono anche disponibili in formati speciali, come i CD-RW (Compact Disc Recordable/Writable) e i DVD-R (Digital Versatile Disc Recordable).

## CD-ROM fhf%ofCfu

fCE[fU[fR[f€Af~f%o[AŽÊ^ŒÿoŠí,đŽg,Á,Ä [CD-ROM](#)  
, ©, çff[f^,đ“Ç,Ÿž,p,½,β,İffofCfXBCD-ROM,Í“Ç,ŸŽæ,èê—p,İff[f^<L%-^æ”}‘ì,È,ì,ÅACD-  
ROM fhf%ofCfu,Í CD-ROM,É‘í,μ,Äff[f^,ì“Ç,ŸŽæ,è,í,Å,«,Ü,·,ª‘,«ž,Ÿ,í,Å,«,Ü,<sup>1</sup>ñB

**fjfXfP[fhf fjjf...]**

f fjjf... [€-Ú, ð'í'ð, μ, ½, Æ, «, É, ³, ç, É•Ž, ³, ê, é fjjf... [BfjfXfP[fh,ª—p^Ó,³,ê,Ä,ç,é fjjf... [€-Ú-  
¼, í%oE,É, í > ,ª•Ž, ³, ê, é, Ì, ÅÆ©•ª, ¯,ª,Ä,«,Ü,·B

'†%o>[]^—[]'•'u



## CGA

Color Graphics Adaptor , à Bfp [fif:Rf"fsf... [f^ , ÅŽg, í, è, éfrffflfAf\_fvf^f{ [fh, ì 1 Ží BPC , ìfrfflfffBfXfvfCfC•W€ , ì""W, É, ", ç, Å CGA , ìf, fmfNf [fffBfXfvfCfCfAf\_fvf^ (MDA) , ìCä, ÉŠJ"- , ã, è, Ü, µ, ½ BCGA fj [fh, É, í, ç, , Å, ©, ìfrffflf, [fh, ã, , è, Ü, , ã AfOf%oftjBfbfN, É, Å, ç, Ä, í 4 [F AfefLfxfg, É, Å, ç, Ä, í 16 [F, ì \$CÄ, ã, , è, Ü, . [B

## f`fF[]f“

'P^êftj@fCf<,ì•”•a•”•a,afffBfXfN[]ã,ì~A'±,μ,È,çfNf%ofXf^,ÉŠi”[.³,ê,Ä,ç,é[]ê[]#[]Aftj@fCf<,ì  
([]ÅCEä,ìfNf%ofXf^,ð[]œ,) fNf%ofXf^,ÉŠÖ,·,é FAT fGf“fgfŠ,ìftj@fCf<,ìff[]f^,ðŠi”[.μ,Ä,ç,éŽÿ,É'±,-  
fNf%ofXf^,ðŽì,μ,Û,·[]Bftj@fCf<,ìfNf%ofXf^f`fF[]f“,ÉŠi”[.³,ê[]AFAT fGf“fgfŠ,í FAT  
f`fF[]f“,ðCE`[]¬,μ,Ä,ç,é,Æ,ç,ì,Û,·[]B

**fNf fbfNfTfCfNf<**

fRf“fsf... [f^, aCEÅ X, i'€ i, ðžÀ s, ·, é, ½, ß, É•K—v, ÈžžŠÔ, i Å —'P^ Ê B, ½, Æ, i, Î ACPU , a 2  
, Å, i fCEfWfXf^ ŠÔ, Åff [f^, ð“] —, ·, é, ½, ß, É, Í 1 fNf fbfNfTfCfNf<, a, ©, ©, è, Ü, · BfNf fbfNfTfCfNf<, i, ±  
, Æ, ð uCPU fTfCfNf< v, Ü, ½, Í ufNf fbfNf` fbfN v, Æ, à, ç, ç, Ü, · B

## fNf%ofXf^

ŽŸ<CfffBfXfN<L%o~'•'u,ìŠî-{Š,,è“-,Ä'P^Ê□B1 ,Â,ìfNf%ofXf^,í 1 ,Â^È□ă,ìfZfNf^,Ă□\  
□→,³,ê,Û,·□Bftf@fCf<ftfCfY,ªŒµ-§,ÉfNf%ofXf^ftfCfY,ì”{□”,É,È,é,±  
,Æ,Í,Û,ê,Ă,·□B'Ê□í□Aftf@fCf<,ìff□[f^,ðŠi”[·,·é□ĂŒă,ìfNf%ofXf^,ì□l,í,è,É□ufXf%ofbfN—  
ì^æ□v,ÆŒÄ,Î,ê,é<ó,Ì—ì^æ,ª, ,è,Û,·□BfNf%ofXf^,ðŽg,α,±,Æ,ĂfifyfŒ□[fefBf”fOfVfXfef€  
,ìfZfNf^fŒfxf<,Ă□ì<Æ,·,é,æ,è,àfffBfXfN□ă,ìftf@fCf<,ðŒø—!“l,ÉŚÇ—□,Ă,«,Û,·□B

## CMOS

Complimentary Metal-Oxide Semiconductor,  $i - a \square B \cdot K - v, \hat{E} " d - \acute{I} - \hat{E} , \hat{a} \square , \mu , \hat{A} , \cdot , p , \hat{a} , \alpha$   
,  $\acute{E} \square Y \text{CE} v , \hat{3} , \hat{e} , \frac{1}{2} " \frac{1}{4} " \pm ' i , \hat{i} ^ \hat{e} \acute{z} \acute{i} \square \text{BCMOS} f x \square [ f X , \hat{i} f \square f , f \acute{S} , \hat{i} \acute{S} \ddot{o} " \square \ll , \hat{A} , \cdot , \hat{a} \acute{S} i " [ , \hat{3} , \hat{e} , \frac{1}{2} \hat{i} \cdot \hat{n} , \hat{i} f \square f b f e f \acute{S} , \hat{i} , \hat{a} , \alpha$   
,  $\acute{E} \square \neg , \hat{3} , \acute{c} " d \text{CE}^1 , \acute{E} \text{ CMOS} f \hat{ } f b f v , \acute{o} \square \acute{U} ' \pm , \cdot , \acute{e} , \pm , \hat{A} \text{E} , \acute{E} , \hat{a} \text{e} , \hat{A} , \hat{A} \cdot \acute{U} , \hat{A} , \ddot{U} , \cdot \square \text{BPC} , \hat{i} f v f X f e f \acute{e} f n \square [ f h f E f F f A , \acute{E} , \hat{A} , \acute{c}$   
,  $\hat{A} , \hat{i} \acute{S} \hat{i} - \{ " i , \acute{E} f f \square [ f ^ , \acute{o} ^ \hat{U} \acute{Z} \square , \cdot , \acute{e} , \frac{1}{2} , \beta , \acute{E} \text{ CMOS} f \square f , f \acute{S} f \hat{ } f b f v , \acute{o} \acute{Z} g , \acute{c} , \ddot{U} , \cdot \square \text{BPC} , \hat{i} \text{ CMOS}$   
,  $f \hat{ } f b f v , \acute{E} , \hat{i} f f f B f X f N , \hat{i} \text{CE} \hat{A} \square " , \hat{A} \acute{E} \acute{Z} \acute{i} - p \square \text{ARAM} , \hat{i} - e - \hat{E} \square A f L \square [ f \{ \square [ f h , \hat{i} \acute{Z} \acute{i} - p , \acute{E} , \acute{c} , \hat{i} \hat{i} \cdot \hat{n} , \hat{a} " \ddot{u} , \hat{A} , \hat{A} , \acute{c} , \ddot{U} , \cdot \square \text{B} , \pm$   
,  $\hat{i} \hat{i} \cdot \hat{n} , \hat{i} \langle N " \text{ @ } \acute{Z} \acute{z} , \acute{E} \cdot \backslash \acute{Z} \hat{i} , \hat{3} , \hat{e} , \acute{e} f R f " f s f \dots \square [ f ^ , \hat{i} \square u \langle N " \text{ @ } \% \text{o} \hat{a} - \hat{E} \square v , \acute{E} \cdot \backslash \acute{Z} \hat{i} , \hat{3} , \hat{e} , \ddot{U} , \cdot \square \text{BCMOS}$   
,  $f \square f , f \acute{S} , \hat{i} f \square f b f e f \acute{S} , \hat{a} \square \emptyset , \hat{e} , \acute{e} , \hat{A} \square A \square \hat{i} \cdot \hat{n} , \hat{a} \square \hat{A} \acute{Z} , \mu , \hat{A} f R f " f s f \dots \square [ f ^ , \hat{i} \langle N " \text{ @} , \acute{E} - \hat{a} ' \acute{e} , \hat{a} \langle N , \ll , \acute{e} , \pm , \hat{A} \text{e} , \hat{a} , \cdot , \acute{e} , \ddot{U} , \cdot \square \text{B}$

**fRf“f{f{fbfNfX**

fefLfXfgf{fbfNfX,ÆfŠfXfgf{fbfNfX,ì<@”\,ð‘g,Ý☈,í,¹,½ GUI fRf“f|□[flf“fg□BfefLfXfgf{fbfNfX,ì,æ,ꝛ,Éft□[fU□[,ª“ü—í,Å,«,é“ü—íftfB□[f<fh,ÆfŠfXfgf{fbfNfX,ì,æ,ꝛ,É,»,±,©,ç‘l‘ð,·,éflfvfVf#f“fŠfXfg,ª—p^Ó,³,ê,Ä,ç,Ü,·□B

## fRf}f“fhf{f^f“

f{f^f“ã,lfefLfxfg,Ž,“®ì,žÀs,·,é’·ûĎ,lf{f^f“BĀ,à^è”É“l,ÈfRf}f“fhf{f^f“,í mOKn,Æ  
mfLfff“fZf<n,Ā,·BmOKn,í“®ì,žÀs,Û,½,íĎx,âf{fbfZ[fW,Ém’è  
%ž“š,μ,Û,·BmfLfff“fZf<n,í%½,à,μ,É,ċ  
,Āf\_CfAfOf{fbfNfX,đ·Ā,¶,Û,·BfRf}f“fhf{f^f“,đ’P,Éuf{f^f“v,Æ,à,ċ,ċ,Û,·B

## COMMAND.COM

**Windows 98/Me:** DOS ,iffjtHf<fg,ìRf}}f“fhfCf“f^[]fvfŠf^fvf[]fOf%of€[]BfL[]f{[]f[]fh,©,ç“ü—  
í,<sup>3</sup>,ê,½fRf}}f“fh,ðŽó,~Žæ,è[]A‘¼,ìfvf[]fOf%of€,ðf[][]fh,μ,½,è[]Afvf[]fOf%of€,Æ [CPU](#) ŠŎ,ìî•ñ,ì—  
¬,ê,ð[]\$Eä,·,é,È,Ç,ìf^fXfN,ðŽÀ[]s,μ,Û,·[]B



**fRf~fbfgf f, fš**

Windows ,l^—,l,1/2,β,lf f, fš, δ 2 'iŠK, ÅŠ,, è“-,Ä,Ü, ·B'æ 1 'iŠK, Å, í ê~A, lf f, fš f Afhf fX, δ^—  
 ,l, 1/2, β, É—\-ñ, μ, Ü, ·B'P, Éf f, fš, í~A'±fuf fbfN, lš—LCE , δ•ÜŽç, ·, é, 3/4, -, l, 1/2, β, É AŽAÜ, É^ê“x, É•  
 K—v, É (, Ä, Ü, èŽg, x) , æ, è, à'1/2,, lf f, fš, a^—, l, 1/2, β, É—\-ñ, 3, è, é, ±, Æ, a, , è, Ü, ·B, ç, , è, É, μ, Ä, à A  
 —\-ñ i, Ý, lf f, fš f Afhf fX, a fffBfXfN ä, l•— f f, fš (RAM) , iŽA<óŠÖ, δ•\, ·, Æ, í, ©, -, è, Ü, 1, ñ B  
 ŽAÜ A^—, lfVfXfef€ ä, ÅŽg, l, é, æ, è, à'1/2,, lf f, fš, δ—\-ñ, Å, «, Ü, ·B  
 %o'1/4'z f f, fš f Afhf fX, δ^—, ÉŽg, l, é, æ, x, É, ·, é, É, l A f Afhf fX, ÉŽAÜ, l<L%o~^æ (RAM  
 , Ü, 1/2, l fffBfXfN) , Å'1%ož, ·, éff [f^<L%o~èš, a•K—v, Ä, ·B fRf~fbfgf f, fš, í—\-  
 ñ i, Ý f Afhf fX, ÉŠÖ~A•t, -, 3, è, 1/2 f f, fš, Å, , è A, μ, 1/2, a, Ä, Ä^ê“É, É'1/4, l^—  
 , É, íŽg, l, Ü, 1, ñ B fRf~fbfgf f, fš, í RAM , Ü, 1/2, l fffBfXfN (fXf fbfvftf@fCf<) , l, ç  
 , , è, ©, É, , é, l, Å fVfXfef€, ÉfCf“fXfg [f< i, Ý, l RAM , l—e—É, δ' , l, é, ±, Æ, a, , è, Ü, ·B

^3kf{fŠf...lf€

u^3kf{fŠf...lf€ftf@fCf<v,Æ,à,ç,ç,Ü,·B^3kffBfXfN,ð\¬-,·,é  
%B,µftf@fCf<,Å,·BffBfXfN,ð^3k,·,é,ÆA,»,lftf@fCf<,lftfCfY,Ík¬-,³,èA'P^è,ì^3kf{fŠf...lf€  
,É,Ü,Æ,ß,ç,è,Ü,·B^3kf{fŠf...lf€,ízfXfgfhf%ofCfuă,ÉŠ'["],³,è,Ü,·B

^3k

ff[f^,É•K—v,ÈfRf“fsf...[f^,ì<L%o~^æ,ªCE, ,é,æ,æ  
,Éff[f^,ð<Ãk, ,é<ZpB^3k,µ,½ff[f^,í,à,Æ,ì^3k,µ,È,çff[f^,æ,è,àŠi”[Žž,ÉfffBfXfNã,Åè,ß,  
é•—“l,É—í^æ,ª,È,ªAfrf“fsf...[f^ŠŎ,Å,ì“’B,à’—,-  
,É,è,Ü,·BCEÂX,ìtf@fCf<,Ü,½,ífffBfXfN’S’ì,í”C^Ó,ìft[feBfŠfefBf\  
ftfgfEjFfA,ðŽg,Á,Å^3k,Å,«,Ü,·B

**Windows NT/2000/XP:** NTFS ,É,í’g,Ýž,Ý,ì^3kft[feBfŠfefB,ª“ü,Á,Ä,ç  
,Ü,·BfRf}f“fhfvf[f“fvfg,Å COMPACT fRf}f“fh,ðŽg,æ,Æ NTFS  
fp[feBfVfj“ã,ìtf@fCf<,Ü,½,ìftHf<f\_,ð^3k,Å,«,Ü,·B

## CONFIG.SYS

**Windows 98/Me:** fVfXfef€,İfn□[fhfEjFfA,đ□Ý'è,μ□AfffofCfXfhf  
%oofCfo,đf□□[fh,·,éjRf}f"fh,ª"ü,Á,Ä,ç,éfefLfXfgftf@fCf<□BfRf"fsf...  
□[f^,ª<N"®,.·,é,ÆŽ©"®"l,ÉŽÄ□s,³,ê,Ü,·□B

**fRf“fefLfXfgf[]fjf...[]**

fCj“f^[]ftfF[]fXfIfufWfFfNfg,đ%[EjNfŠfbfN](#),·,é,Æ•\Ž!,<sup>3</sup>,ê[]A,»,}fIfufWfFfNfg“Á—  
L,}fIfv}Vf#f“,Æ[]î•ñ,đ'ñ<Ÿ,; ,éf[]fjf...[][]BfRf“fefLfXfgf[]fjf...[][,É•\  
Ž!,<sup>3</sup>,ê,éfRf}f“fh,í,»,ì,Æ,«,É'!đ,μ,Ä,ç,éfIfufWfFfNfg,É,Ä,ç,Ä,Ä,«,é'€[]ì,É%ž,¶,Ä•İ,í,è,Ü,·[]B

~A'±

• "—□"l,É%½,©,Æ—×□Ú,μ,Ä,ç,é,±,Æ□B1 ,Â,ì«ŠE,ð,í,<sup>3</sup>,ň,Å□Ú,μ,Ä,ç,é,±,Æ□B

## fRf“fgf□□[f<f□fjf...□[

fEjBf“fhfE□Af\_fCfAf□fOf{fbfNfX□AfAfCfRf“,δ□^—□,Å,«,éf□fjf...□[□BfRf“fgf□□[f<f□fjf...  
□[.ÍfRf“fgf□□[f<f□fjf...□[f{fbfNfX,ðfNfŠfbfN,μ,½,Æ,«□A,Ü,½,Íf^fXfNfo□[,ì□Å□\_  
%o»,³,ê,½fAvfŠfP□[fVf†f“,ÍfAfCfRf“,ð%oEfNfŠfbfN,μ,½,Æ,«,É•\Ž|,³,ê,Ü,·□B□ufVfXfef€f□fjf...  
□[□v,Æ,à,ç,ç,Ü,·□B

**fRf“fxf“fVf#fif<f□f,fŠ**

**Windows 98/Me:** fRf“fsf...□[f^,ì [RAM](#) ,ì□Å□%o,ì 640KB□B□]—^,ì IBM PC ,ìfvf□fOf%of€  
,Æf|fyfCE□[fefBf“fOfVfXfef€,ÅŽg,α,½,β,ÉfRf“fxf“fVf#fif<f□f,fŠ,đ—\-ñ,μ□AŽc,è,ìf□f,fŠ,ìfvfXfef€,ì-  
Ú“l,ì,½,β,É—\-ñ□Ī,Ÿ,Å,μ,½□B



<|'²“i,Èf}}f<f`f^fXfN

f}}f<f`f^fXfN,ì`èží□BfAfvfŠfP□[fvf#f“ ,É`È`¶,μ□A`èŠú“i,É CPU ,É□],Á,Ä (-¾,~“n,μ,Ä)  
flfyfCE□[fefBf“fofvfXfef€,É□§CEä,ð-ß,μ,Û,·□B,» ,ìžž“\_ ,ÅflfyfCE□[fefBf“fofvfXfef€  
,Ížc,è,ì,Ç,ìfAfvfŠfP□[fvf#f“ ,Éžÿ,ì CPU ,Ö,ìfAfNfZfX,ð<-‰oÄ,·,é,©CE`è,μ,Û,·□BfAfvfŠfP□[fvf#f“ ,<sup>a</sup>-  
¾,~“n,·,Û,Ä 1 ,Ä,ìfAfvfŠfP□[fvf#f“ ,<sup>a</sup> CPU ,Ö,ìfAfNfZfX,ð±,·,é,ì,ð<-‰oÄ,·,é,ì,Ä□A,±  
,ìf}}f<f`f^fXfN<Z□p,É,í CPU ,ð□è—L,μ,È,ç,æ,α,É□ÝCEv,<sup>3</sup>,è,½fAfvfŠfP□[fvf#f“ ,<sup>a</sup>•K—v,Ä,·□B□è—  
L,ìf}}f<f`f^fXfN,ì-Ú“i,É”½,μ,Û,·□B,±,è,Æ`í□Æ“i,È,ì,<sup>a</sup>fvfCEfGf“fvfefBfuf}}f<f`f^fXfN,Ä,·□B

**fjFef“f^**

**Windows NT/2000/XP:** Windows ,[lfufWfFfNfgCE^](#),i’@«BfIfufWfFfNfg,É,Â,ç,Ä,Ì“CEv□î•ñ,đŽ!,•ï□”l,ªŠi”[,³,è,Ü,·□B,½,Æ,!,î□Af□f,fŠIfufWfFfNfgCE^,É,lfLfffbfVf...fofCfjgffJfEf“f^,ª, ,è□ACE»□ÝfVfXfef€,[fffBfXfNfLfffbfVf...](#),É—\-ñ,³,è,Ä,ç,éf□f.fŠ,ì—e—É,đŽ!,µ,Ü,·□B

## CPU

Central Processing Unit ('†%oo>^—'•'u) ,ì—ªBCEvŽZ,đ,μA-½—β,đŽÀs,μAfrf"fsf...  
[f^,ìŠe•",Æ,ìŠÖ,Åî•ñ,đ"]'—,·,éfrf"fsf...[f^,ì^è•"BPC ,ì,æ,α,Èf}fCfNf"frf"fsf...  
[f^,É,íuf}fCfNf"fvf"ZfbfT"v,ÆCEÄ,ì,è,évf"fof`fbfv,ì CPU ,ª"«Ú,³,ê,Ä,ç,Ú,·B

**CPUID -½—ß**

fVfXfef€, Ì CPU ,É,Â,ç,Ä, Ìi•ñ, ð'ñ<ÿ, ·, éfAfZf“fufŠCE¾CEê, Ì-½—ß BCPUID -½—ß, ðŽg, æ, Æ ACPU  
,<sup>a</sup> CE»Y, Ì CPU , ÌŽí—pA»‘çf[fj[A“Á•Ê, Ê<@“\, ð•Ö, µ, Ü, ·B, ·, x, Ä, Ì CPU ,<sup>a</sup>, ±, Ì-½—ß, ðfTf]  
[fg, ·, é, í, -, Å, Í, , è, Ü,<sup>1</sup>, ñB

**fNf fXfŠf“fN,μ,½ftf@fCf<**

2 ,Â,î^Ù,È,éftf@fCf<,É'® ,·,éff□[f^ ,áfffBfXfN□ă,Â“^ ,¶fNf%ofXf^ ,ð□è—L,·,é,±,Æ,ðŽ!,· [FAT](#) ,ìfGf  
%o□[□ðŒ□□B1 ,Â,ìfNf%ofXf^ ,É“ü,é,í,1 ,Â,ìftf@fCf<—  
p,ìff□[f^ ,ÉŒÀ,ç,ê,é,ì,Â□Afnf□fXfŠf“fN,μ,½ftf@fCf<,ífffBfXfN,ìftf@fCf<□\‘ç,É,“,ç,ÄfGf  
%o□[ ,ðŽ!,μ,Û,·□Norton Disk Doctor ,íff□[f^ ,ì-{-,ì□Š'® □æ,ðŒ^'è,μ□A,±,ìŽí—p,ìfGf  
%o□[ ,ð'ù□³,Â,«,Û,·□B

## CRC

Cyclic Redundancy Check (CRC) is a type of error-detecting code. It is used to detect errors in data transmission. The CRC is calculated by dividing the data by a polynomial. The remainder of the division is the CRC. The CRC is then appended to the data. The receiver then divides the data by the same polynomial. If the remainder is zero, the data is correct. If the remainder is not zero, there is an error.

## fVfŠf“f\_

Ž¥<CfffBfXfN ä, ÅfffBfXfN, ì', ©, ç“™ <—£, É, , é'î%ž, ·, égf%oofbfN, ìfZfbfg B, » , ì, æ, α, Èfgf %oofbfN, ìfZfbfg, ð W, β, é, Æ%o~“>CE` , Å, Ü, èfVfŠf“f\_ CE` , É, È, é, ì, Å ufVfŠf“f\_ v, ÆCEÅ, Ñ, Ü, · B—¼- Èftf fbfS ffffBfXfN, ì ê # A, Ç, ìfVfŠf“f\_ , à • \, Æ— , ì 2 , Å, ìfgf%oofbfN, ì, Ý, Å \ □→, ³, ê, Ü, · Bfn fffffBfXfN, ì ê # AfVfŠf“f\_ , í, ç, , Å, à, ìfgf%oofbfN (%o~” Ö, ², Æ, ì • \, Æ— ) , Å \ □→, ³, ê, Ü, · B

ffCfW[f`fF[f“



## ffftHf<fgf{f^f“

f\_fCfAf□fOf{fbfNfX,Å□AffffHf<fg,Å'l'ð,<sup>3</sup>,ê,Ä,ç

,é[Rf}f“fhf{f^f“□B,»,l'¼,lRf}f“fhf{f^f“,æ,è□A««ŠE□ü,ª”Z,,È,Á,Ä,ç,Ü,·□Bf\_fCfAf□fOf{fbfNfX,<sup>a</sup>•\  
Ž,<sup>3</sup>,ê,Ä,ç,éŠÖ,É Enter fL□[,ð%Ÿ,·,Æ□AffffHf<fgf{f^f“,ðfNfŠfbfN,·,é,ì,Æ“~,¶CE<%oÉ,É,È,è,Ü,·□B

'f•D%oo»%oođ□Á

,»ê,¼,è,ìftf@fCf<,đ□\□¬,·,éff□[f^,ª~A'±fffBfXfNfNf%ofXf^,ÉŠi"[,³,è,é,æ,ϣ  
,ÉfffBfXfN□ã,ìftf@fCf<,ì•Ö□¬,đ□C□³,·,é,±,Æ□Bftf@fCf<,ª'f•D%oo»,·,é,ÆfffBfXfN,ì□^—□'¬"x,ª'á  
%oo²,μ,Ü,·□B

## <L□qŽq

f□f,fŠ,ì“Á’è,ìfZfOf□f“fg,É,Â,ç,Ä,ì□î•ñ,ðŠi”[,·,é RAM ,ì—ì^æ□B<L□qŽq,í□u<L□qŽqfe□[fuf<□v,Æ,ç,κ  
RAM ,ì“Á•Ê,Ê—  
ì^æ,ÉfGf“fgfŠ,Æ,μ,ÄŠi”[,<sup>3</sup>,ê,Ü,·□BfZfÇfNf^,ª<L□qŽqfe□[fuf<,ìfGf“fgfŠ,ðŽw,μ,Ü,·□B

## fffofCfXfhf%ofCfo

fRf“fsf...[]f^,afffofCfX (fvfŠf“f^,âf,fff€,È,Ç) ,Æ'Ê□M,Å,«,é,æ,α,É,·,éfvf□fOj%of€□B  
Windows ,É,í%o¼'zfffofCfXfhf%ofCfo,â, ,è,Ü,·□B%o¼'zfffofCfXfhf%ofCfo,Í•K—  
vŽž,É“ @“l,Éf□□[fh,âf□□[fh%oð□œ,³,ê,Ü,·□B

**f\_fCfAf\_fOf{fbfNfX**

□î•ñ,ð—v<□,Ü,½,í'ñ<ÿ,·,é“Á•Ê,ÈŽí—p,ìfEfBf“fhfE,Å,·□B

ffBfCEfNfgfŠ

ffBfŒfNfgfŠfcŠ[]

**ffBfCEfNfgfŠ'®□◀**

ftfHf<f\_, Å, éffBfCEfNfgfŠfGf"fgfŠ ,đŽ`•Ê,.,éftf@fCf<'®□◀□B



## ffffBfXfNfjgfŠfGf“fgfŠ

ffffBfXfN,íf<[fgffffBfXfNfjgfŠ,Ü,½,íffffBfXfNfjgfŠ,ìĈĀX,ì€-Ú,ð<Lq,·,éftfHf<f\_ ('Éí,íftf@fCf<,Ü,½,íftfHf<f\_j,ÉŠi”[,³,ê,éî•ñBffffBfXfNfjgfŠfGf“fgfŠ,É,í-¼'OĀĀĒŠĀftfCfY,Æ€-Ú,ì“Á•Ē,Ēftf@fCf<'@□«,Ē,Ç,ìî•ñ,ª“ü,Ā,Ā,ç,Ü,·□B,Ç,íftf@fCf<,âftfHf<f\_,É,àffffBfXfNfjgfŠ,É'í%ž,·,éffffBfXfNfjgfŠfGf“fgfŠ,ª, ,è,Ü,·□B'·,çftf@fCf<=¼,ª•t,ftf@fCf<,í 1 ,Ā^ĒĀ,íffffBfXfNfjgfŠfGf“fgfŠ,É'·,ç-¼'O,ðŽó,~“ü,ê,é,æ,æ,É-v<□,·,é,±,Æ,ª, ,è,Ü,·□B~\_—ffffBfXfN,²,Æ,ÉffffBfXfN,íf{fŠf...[f€f %ofxf<,ðŠi”[,·,éffffBfXfNfjgfŠfGf“fgfŠ,ª“ü,Ā,Ā,ç,é,±,Æ,ª, ,è,Ü,·□B

## ffBfXfNfLffbfVf...

RAM ,đŽg,Á,Ä^êŽž“l,Éff□[f^,đffBfXfN,©,çŠi“l,·,éLffbfVf...,)Ží—P□BŽ¥<CffBfXfN,Ü,½,í CD-ROM ,©,ç,lf□[f^fAfNfZfX,í RAM ,lf□[f^fAfNfZfX,É”ä,x,Ä’Š’í“l,É’á’¬,Ä,·□B

ffBfXfNfRf“fgf□□[f%◦

ffBfXfNfhf%◦fCfu,Æ CPU ,l'Ê□M,ö□\$CEä,.,éfn□[fhfEfFfAfrf“f|□[flf“fg□B

ffBfXfNf{fŠf...[]f€

ffBfXfvfCfCfAf\_fvf^

## DLL

Dynamic Link Library ,i—ª□BfAfvfŠfP□[fvf#f“ ,iŽÀ□s,É,æ,Á,Ä<¤—L,Å,« ,éŽÀ□s%oÅ“\ ,ÉfR□[fh,ª“ü,Á,Ä,¢,é Windows ftf@fCf<□BDLL ,ðŽg,¤,ÆfAfvfŠfP□[fvf#f“ ,Å“Á'è,ì<@“\ ,ðŽÀ□s,·,é,½,ß,É•K—v,È'¼,ìfŠ^□[fX,à<¤—L,Å,« ,Ü,·□B

• 1. 'fEjBf"fhfE

• \CEvŽZf□□[fNjV□[fg,Ü,½,ÍfefLjXfgftf@fCf<,È,Ç,İfAfvfŠfP□[fVf#f" • 1. ' , δ • \Ž | , . , éfEjBf"fhfE□B

**fhf[]fbfvf\_fEf“fRf“f{f{fbfNfX**

fejLjXfgf{fbfNfX,Æfhf[]fbfvf\_fEf“fŠfXfg (fvf[]f“fvfgf{f^f“,đfNfŠfbfN,.,é,Æ%oo°,É‘l’đfŠfXfg,<sup>3</sup>•\  
Ž|,<sup>3</sup>,ê,é) ,đ‘g,Ý[]‡,í,<sup>1</sup>,½“Á•Ê,ÊfRf“f{f{fbfNfX[]B



**fhf fbjvf fEf fŠfXfg**

fvf f fvf gf f f f, ðfNfŠfbfN, ·, é, Æ A%º, É' l' ðfŠfXfg, ð·\Žl, ·, éfŠfXfgf ffbfNfX B B €-  
Ú, º' l' ð, º, è, é, Æ AfŠfXfg, Í·Â, ¶, Ü, · B

## DRAM

'É□í,íRf"fsf...□[f^,íŽâ<L%~ RAM ,ì,½,β,ÉŽg,í,ê,é"¼"±'ífx□[fX,íf□f,fŠ,íŽí—p□BDRAM  
f`fbfv,íŽžŠÖ,ª,½,Â,Æ"d%ox,ª□Á,í,éfRf"fff"ft,ð"à' ,.é,ì,Á□AŠi"□[í,Y,ì□î•ñ,ð□â,í,□',«'¼,·  
(,Â,Û,è□u□X□V□v,·,é) ,æ,α,ÉfRf"fsf...□[f^,É—v<□,μ,Û,·□B,±,ê,í□X□V,ð—v<□,μ,É,ç,Á□î•ñ,ð•Û,Â  
SRAM f`fbfv,Æ'í□Æ"l,Â,·□B,±,ê,ç,íŽí—p,ì RAM ,í—¼•û,Æ,àŠö"□«,íf□[f^<L%~^æ,ð—p^Ó,μ,Â,ç  
,Û,·□BDRAM f`fbfv,í,æ,è^À%o¿,Á SRAM f`fbfv,æ,è'½,,ì□î•ñ,ðŠi"l,μ,Û,·,ª□ADRAM  
,ì□î•ñ,ÉfAfNfZfX,·,é,ì,É,íŽžŠÖ,ª,©,©,è,Û,·□B

**DRVSPACE.BIN**

DriveSpace ,É,æ,Á,Ä^³k,³,ê,½fhf%ofCfu,đfTf|[]fg,·,é,½,ß,ÉŽg,í,ê,é DOS ,ìfhf%ofCfo[]B

**“džqf□□[f<**

Electronic ,ì“ª•¶Žš,ì E ,đ,Æ,Á,Ä□uE f□□[f<□v,Æ,à,ç,ç,Ü,·□B<κ’Ê,ìfRf“fsf...□[f^flfbfgf□□[fN,đ<κ—  
L,·,é□l,Ü,½,í,»±,ÉfAfnfZfX,Å,«,é□l,Éf□fbfZ□[fW,âî•ñ,đ (ftf@fCf<,đŠÜ,ß,Ä) ‘—□M,Å,«,Ü,·□B

## EGA

Enhanced Graphics Array , Ì—ªBfp [f\jif<fRf“fsf... [f^, ÅŽg, í, ê, éfrfffIfAf\_fvf^f{ [fh, Ì 1 ŽíBPC  
—pfrfffIfffBfXfvfÆfC•W [€, Ì“W, É, ”, ç, Å EGA , í CGA , ÌÆã, ÉŠ” , ³, ê, Ü, µ, ½BEGA fj [fh, É, í, ç, -  
, Å, ©, ÌfrfffIf, [fh,ª, , è, Ü, ,ªAfOf%oftfBfbfN,ÆfefLfXfg, Å 16 [F, Ì [SCEÀ,ª, , è, Ü, ·B

## EISA

Extended Industry Standard Architecture ,ì—ª,Å□ufC□[fT□v,Æ”%oo¹,μ,Ü,·□BISA fofX,ÉŠî,Ã,-  
fRf“fsf...□[f^fofX,ì—Ž@□B32 frfbfgff□[f^fpfX,đŽg,ϕ□AISA fofX,É,Í,É,ϕ□,“x,È<@”\,đ”đ,ı,Ã,ϕ  
,Ü,·□BISA Šg’£fj□[fh,đ EISA fofXfRfjNf^,É□,μ□ž,p,±,Æ,Í,Å,«,Ü,·ª□AEISA fofX,ì□,“x,È<@”\,Í—  
p,Å,«,Ü,¹,ñ□B

E f00[f<

## ŠĀ««•İ”

ŠĀ««•İ” ,İfİfyfĈ[fefBf“fOfVfXfef€  
,Æ,» ,İ¼,İfAfvfŠfP[fVf#f” ,Žg,ŞeŽÍ,İfOf[fOf<,ÈŸ’è,đŠi”[ ,µ,Ü,·B,±  
,ê,ç,İŸ’è,İ•İX,Ā,«ASĀ««•İ” ,ÉĈ»Ÿ,İŸ’è,đŠi”[ ,³,ê,Ü,·BDOS ,ĀŽg,í,ê,é“TĈ^“İ,ÈŠĀ««•İ” ,İ  
PROMPTĀTEMPĀPATH ,È,Ç,Ā,·BPROMPT ,Í DOS fvf“fvfg,đ,Ç,Ş•\  
Ž! , ,é,©,đŽw’è,·,éŠĀ««•İ” ,Ā,·BTEMP ,İ^êŽŽ“İ,Èfvf“fOf%of€,İ<L  
%o~^æ,İ,½,ß,ÉŽg,ŞftfHf<f\_ ,đŽw’è,·,éŠĀ««•İ” ,Ā,·BPATH ,İfİfyfĈ[fefBf“fOfVfXfef€,İfRf}f“fhf  
%ofCf” ,Ā“ü—İ,·,éŽĀ[s%oĀ“\,Èfvf“fOf%of€,đĈŸö,·,éftfHf<f\_ ,İfŠfXfg,đŽw’è,·,éŠĀ««•İ” ,Ā,·B  
Ĉ»Ÿ,İ’è<`İ,Ÿ,İŠĀ««•İ”Ÿ’è,đĈ© ,é,É,İADOS fEfBf“fhfE,đŠJ,ç,ĀfRf}f“fhfvf“fvfg,Ā SET ,Æ“ü  
—İ,µ,Ü,·B



**EEPROM**

Electrically Erasable Programmable Read-Only Memory,  $\text{©}, \text{ç}, \text{Z}, \text{æ}, \text{è}, \text{í}, \text{,}, \text{.}, \text{±}$   
,  $\text{Æ}, \text{È}, \text{fvf}, \text{Of}, \text{€}, \text{â}, \text{Á}, \text{Ž}, \text{Å}, \text{«}, \text{é}$  **EPROM**,  $\text{ì}, \text{Ž}, \text{—}, \text{p}$  BEEPROM,  $\text{í}, \text{•}, \text{s}, \text{Š}, \text{ö}, \text{«}, \text{f}, \text{f}, \text{š}, \text{Å}, \text{•}$  BEEPROM  
 $\text{f}^{\text{`}}, \text{fbfv}, \text{ð}, \text{“}, \text{à}, \text{’}, \text{.}, \text{,}, \text{é}, \text{f}, \text{R}, \text{f}, \text{“}, \text{f}, \text{sf}, \dots$   $\text{[f}^{\wedge}$ ,  $\text{í}$  EEPROM  
 $\text{, ð}, \text{Á}, \text{Ž}, \mu, \text{½}, \text{è}, \text{’}, \text{«}, \text{’}, \text{¼}, \mu, \text{½}, \text{è}, \text{’}, \text{é}, \text{½}, \text{ß}, \text{í}, \text{“}, \text{Á}, \text{•}, \text{È}, \text{È}, \text{fn}, \text{[}, \text{fh}, \text{E}, \text{f}, \text{F}, \text{f}, \text{A}, \text{ð}^{\text{”}}, \text{ö}, \text{,}, \text{!}, \text{Ä}, \text{ç}, \text{Ü}, \text{•}, \text{B}, \text{±}, \text{ì}, \text{Ž}, \text{—}$   
 $\text{p}, \text{ì}, \text{f}, \text{f}, \text{f}, \text{š}, \text{É}, \text{Š}, \text{ì}, \text{”}, \text{[}, \text{í}, \text{Û}, \text{î}, \text{•}, \text{ñ}, \text{ð}, \text{•}, \text{í}, \text{X}, \text{,}, \text{’}, \text{é}, \text{,}, \text{í}$  **DRAM**  $\text{f}^{\text{`}}, \text{fbfv}, \text{ð}, \text{•}, \text{í}, \text{X}, \text{,}, \text{’}, \text{é}, \text{,}, \text{æ}, \text{è}, \text{à}, \text{’}, \text{á}, \text{’}, \text{—}, \text{È}, \text{,}, \text{!}, \text{Å}, \text{A}, \text{f}, \text{R}, \text{f}, \text{“}, \text{f}, \text{sf}, \dots$   $\text{[f}^{\wedge}$ ,  $\text{ì}, \text{Ž}, \text{å}, \text{L}$   
 $\text{‰}, \text{’}$  **RAM**,  $\text{Æ}, \mu, \text{Ä}, \text{Ž}, \text{g}, \text{x}, \text{ì}, \text{É}, \text{í}, \text{“}, \text{K}, \mu, \text{Ä}, \text{ç}, \text{Ü}, \text{’}, \text{ñ}, \text{B}$

## EPROM

Erasable Programmable Read-Only Memory, è—ª, ÅufC[]fs[]f[]f€[]v,Æ”%º¹,µ,Û,·[]B<-  
,çŽšŠOü,ð”-,Ä,Ä^È‘O,lfvf[]fOf%ºf€,ð[]Á<Ž,µ,½CEä,Å[]Áfvf[]fOf%ºf€,Å,«,é PROM ,lŽí—  
p[]BEPROM ,í•sŠö”[]«f[]f, fŠ, Å, ,ª[]AŠi”[]i,Ý, lî•ñ,ð[]Á<Ž, ,é,É,í•”—[]l,ÉfRf”fsf...  
[]f^,©,çŽæ,è,í,,·K—v,ª, ,è,Û,·[]B

DEF\_EPROM topic.

## Šg'£f{[]fh

fRf“fsf...[]f^,î<@”\,ðŠg'£

(,½,Æ,!,î[]AfWf#fCfXfefBfbfN[]AfTfEf“fh[]Af}f<f`f[]ffjBfAfffofCfX[]AfIfbfgf[][]fN[]Ú'±,ðfTf|[]fG)

,·,é,½,ß,ÉfRf“fsf...[]f^“à•”,lfXf[]fbfg,É[],μ[]ž,p%ñ~HŠî”Â

(,Ü,½,íj[]fh)[]BŠg'£f{[]fh,ð[]ufAf\_fvf^[]v,Ü,½,í[]ufAf\_fvf^fj[]fh[]v,Æ,à,ç,ç,Ü,·[]B

## EDO RAM

Extended Data Out Random Access Memory,  $\dot{I} - a \square B \square \hat{A} < \beta - v < \square, ^3, \hat{e}, \frac{1}{2} f f \square [f \wedge, \delta$   
%oδ•úCEã,ÉfLfffbfVf... 't,É•Û,Ä,é□V,μ,ϕ□, '¬,É **DRAM**, Ĩí—p□BEDO RAM, í□^—□'¬“x, ð 20%  
,Û,ÅCEü□ã,μ,Û,·□B

### ŠO"”f□f,fŠfLffffbfVf...

"ň□í,É□,‘¬,È CPU ,ÆfRf“fsf...□[f^,ìŽå<L%o~ RAM ,ì’á’¬,È DRAM f`fbfv,ìŠÖ,ð’±%oî,·,éLffffbfVf...  
□BŠO•”f□f,fŠfLffffbfVf...,í□,‘¬,È SRAM f`fbfv,ìfn□[fhfEfFfA%oñ~H,ðŽg,Á,Äf  
ftfgfEfFfA,ð□\$CEä,μ,Û,·□BŠO•”f□f,fŠfLffffbfVf...,í CPU ,ìŠO•”,É, ,é,ì,Å“à•”f□f,fŠfLffffbfVf...  
,æ,è,à’á’¬,Ä,·□B,ç, ,è,ìf□f,fŠfLffffbfVf...,à CPU ,<sup>a</sup> RAM,É—  
v<□,·,é•p“x,<sup>a</sup>□Ä,à□,,çff□[f^,ðŠi”[,μ,Û,·□Bf□f,fŠfLffffbfVf...,í RAM ,æ,è,à,·,î,â, CPU ,Éff□[f^,ð’—  
,é,ì,Å□AfRf“fsf...□[f^,ì□^—□CEø—|,<sup>a</sup>CEü□ä,μ,Û,·□BŠO•”f□f,fŠfLffffbfVf...,ð□u“ňŽÝfLffffbfVf...  
□v□ufCEfxf< 2 fLffffbfVf...□v□uL2 fLffffbfVf...□v,Æ,à,ç,ç,Û,·□B

ftj@fCf.š,,è“-,ÄfGf%o[]

ftj@fCf<,iffBfEfNfgfŠfGf“fgfŠ,ž!,.ftj@fCf<fTfCfY,Æ FAT ,l†,ÅŠÖ~A•t,¯,³,é,fNf  
%ofXf^,ìĈĀ”,ž!,.ftj@fCf<fTfCfY,ì•s^ê'v[]B

# FAT

File Allocation Table , ì—ªBffBfXfN, ìVfXfef€—ì^æ, É, , éfe[]fuf<, Å[]A, » , ê, ¼, ê, ìfNf%oofXf^, ª<ó, «  
(available) , ©[]Aftf@fCf<, É'® , . , é, ©[]A•s—Ç (defective) , ©, ðŽ°•É, µ, Û, ·[]B1 , Å, ª  
%oó, ê, ½[]ê[]†, É" ð, , ÄfffBfXfN, É, Í FAT , ª"ñ[]d, É—p^Ó, ª, ê, Ä, ç, Û, ·[]BFAT []'ç, Í DOS , É[]W't, µ, Ä, ç, Ä  
Windows , ìftf@fCf<, ì" ü[]o—ìfT[]fX, ð—p^Ó, µ, Ä, ç, Û, ·[]BVFAT , àŽQ[]Æ, µ, Ä, , ª, ª, ç[]B

## FAT32

Microsoft ŽĐ,ªŸŒv,µ,½V,µ,†ftf@fCf<fvfXfef€B'å—e—Êfn[fhfffBfXfnfhf%ofCfu,đfTf|  
[fg,µi“Á,É'å—e—ÊfffBfXfnã,Åj,†,Á,»»,æŒø—!“l,ÊfffBfXfn—î^æ,đŽg,†,Û,·B



## FAT

ftf@fCf<fVfXfef€, í, à, Æ, à, Æftf[]fbfs[]lfffBfXfN—p, É[]ÝÆv, ³, è DOS flfyfCE[]lfeBf“fofVfXfef€, Å[]—  
p, ³, è, Ü, µ, ½[]BFAT ftf@fCf<fVfXfef€, Æ, ç, x-¼'O, ÅÆÄ, Ö, Ì, Í [FAT](#)  
, ðŽg, Á, ÄfffBfXfN[]ä, Ì, ;, x, Ä, lfAf[]fP[]lVf#“ftfjfbfgfNf%ofXf^, ÌS,,, è“-  
, Ä[]i•ñ, ð<L~^, ;, é, ©, ç, Å, ·[]BFAT ftf@fCf<fVfXfef€, Í [NTFS](#), Ì, æ, x, É'å—e—Ê, ÌfffBfXfN, âtf@fCf<, ðfTf|  
[]lfg, µ, Ü, ¹, ñ[]B

Windows NT/2000/XP, Å, Ífn[]lhfBfXfN, Í FAT ftf@fCf<fVfXfef€—p, Ü, ½, Í NTFS —  
p, ÉftfH[]l}fbfg, ³, è, Ü, ·[]Bftf[]fbfs[]lfffBfXfN, Í FAT ftf@fCf<fVfXfef€—p, É, Ì, ÝftfH[]l}fbfg, ³, è, Ü, ·[]B

FAT

**ftf@fCf'®□◀**

ftf@fCf'®□◀,ífffBfCEfNfgfŠfGf"fgfŠ,Å•\,ff□[f^,ì"Á'è,ì□◀Žì,đ<L□q,μ□AflfyfCE□[fefBf"fOfVfXfef€  
,Å,»,íff□[f^,đ,Ç,π□^—

□,·,é,©,đCE^'è,μ,Û,·□B,Ç,ìftf@fCf'®□◀,àfffBfCEfNfgfŠfGf"fgfŠ,Æ^ê□□,ÉŠi"l,³,ê,éff□[f^,ì'P^ê,ìfrf  
bfg,Å•\CE»,³,è,Û,·□B1 frfbfg,É,ílf",Æfift,ì 2 ,Å,ì□ó'Ö,μ,©,È,ç

,ì,Å□Aftf@fCf'®□◀,ªŽì,·,ì,ífffBfCEfNfgfŠfGf"fgfŠ,ª,»,ì'®□◀,đ□^—□,Å,«,é,©,Å,«,È,ç  
,©,Å,·□Bftf@fCf'®□◀,íŽÝ,ì 6 ,Å,Å,·□B

- fA□[fjfCfu'®□◀
- ftfHf<f'®□◀
- %oB,μ'®□◀
- "Ç,ÝŽæ,è□ê—p'®□◀
- fVfXfef€'®□◀
- f{fŠf...□[f€f%ofxf<'®□◀

**ftj@fCf·fT[]fo[]**

f|fbfgf[]fNft[]fU[][,<sup>a</sup><κ—L,ifAfvfŠfP[]fVf#f",Æff[]f^ftj@fCf<,ÉfAfNfZfX,Å,«,é,æ,κ  
,É,·,é[]A|fbfgf[]fN,É[]Ú'±,<sup>3</sup>,ê,<sup>3</sup>/<sub>2</sub>+%>fffBfXfN<L%o~'•'u[]BLAN ,àŽQ[]Æ,μ,Ä,,<sup>3</sup>/<sub>4</sub>,<sup>3</sup>,ç[]B

**ftf@fCf<,iŠg'£Žq**

ftf@fCf<-¼,ìÅĀě,ìfsfŠflfh,ìĀě,É•t, -,éĀĒ—ª%Ā"\  
,ÉĀŮ"öŽ«ĀB'ĒĀiĀftf@fCf<,iŠg'£Žq,í^ê"Ē"l,Ēftf@fCf<,iŽí—p,ðŽ,μ,Ů,·ĀB,½,ĀE,ì,ĀĀATXT  
,ífeLfXfgftf@fCf<,iŠg'£ŽqĀADOC ,íĀĀĀ[fvfĀ,ì•ĀĀ'ftf@fCf<,iŠg'£Žq,ĀE,μ,ĀŽg,í,ê,Ů,·ĀBDOS  
ŠĀ««%Āª,Ā,íftf@fCf<,iŠg'£Žq,í"¼Šp 3 •ĀŽš^Ē%Āª,ĒĒĀ,ç,ê,Ā,ç,Ů,μ,½ĀBĀĀ<Ā,ì Windows  
,Ā,ĀĀftf@fCf<,iŠg'£Žq,ð"¼Šp 254 •ĀŽš,Ů,Ā', -  
,Ā,«,Ů,·ĀB,μ,©,μĀA,Ů,ĀE,ñ,ç,íĀfvfŠfPĀ[fvfĀĀ" ,ìĒĒ,çfvfĀĀOf%Āf€,ĀE,ìĒĒŸŠ·ĀĀ,ð•Ů,Ā,½,ĀE,Ů,¾ 3  
•ĀŽš,iŠg'£Žq,ðĀĀ—p,μ,Ā,ç,Ů,·ĀB

ftj@ [f€fEjFfA

•sŠö" «f f, fš ,ÉŠi" [,³,ê,é\ftfgfEjFfA BfRf"fsf... [f^,ì ROM BIOS ,í Å,à^ê"Ê"l,Èftj@ [f€fEjFfA,ì  
—á,Å,·B

## ftf%ofbfVf...f[]f,fš

Intel ,<sup>a</sup>Sj” ,μ, 1/2” 1/4“ ± ‘ifx[]fX, i •sŠö” □«f[]f,fš □Bftf%ofbfVf...f[]f,fš, í **EEPROM** ,Æ“ ~ ,¶, æ, x  
, É“ dŽq“ i, É□Á<Ž%Ä” \, È, Ì, ĀfRf“ fsf... □[f^, ©, çŽæ, è, í, ,<sup>3</sup>, È,, Ā, à□Āfvf[]fOf%of€ , Ā, «, Ü, ·□B, ±, ÌŽí—  
p, Ìf[]f,fš, Ìfuf[]fbfN, Ā□Á<Ž, ·, é•K—v,<sup>a</sup>, , é, Ì, Ā 1 %oň, ÉfofCfg’ P^Ê, Ā%ü•Ī, ·, é, ±  
, Æ, í, Ā, «, Ü, <sup>1</sup>, ñ□B, μ, 1/2,<sup>a</sup>, Ā, Ā□Afrf“ fsf... □[f^, ÌŽâ<L%o~ **RAM** , Ì’u, «Š, Ì, É, Ī“K, μ, Ü, <sup>1</sup>, ñ, <sup>a</sup>ftf%ofbfVf...  
f[]f,fš, Ìf[]f^fuf<frf“ fsf... □[f^, Ìf[]f,fš, ð•â, x, 1/2, ß, É **PC f[]f[]fh**, É, æ, Žg, í, è, Ü, ·□B  
ftf%ofbfVf...f[]f,fš, ðŽg, x 1 , Ā, Ì—á, ÌfvfXfef€ **BIOS** —p, Ā, ·□B<ĈŽ® , Ì ROM BIOS  
f`fbfv, Ì□ê□±, Éfrf“ fsf... □[f^, Ì BIOS , ð□X□V, ·, é, É, Ī• —□“l, É’uŠ, ·, , é•K—v,<sup>a</sup>, , é, Ì, É’î, μ□A, ±, ÌŽí—p, Ì  
BIOS , Ìf\ftfgfEfrfA, Ā□X□V, Ā, «, Ü, ·□B

## ftf[]fbfs[][fffBfXfN

ff[]f^,đŠi"[.,é,½,β,ÉŽg,í,ê,éŽ¥<C"}'ì,ì^êŽí[]BŽ¥<C"}'ì,í"-.,Ä•½,ç,Èf}fCf%oo[][fffBfXfN,É[]Ú'...  
,³,ê,Ä,ç,é,ì,Åftf[]fbfs[][fffBfXfN,í[]\_ "î,Ä,·[]B,±  
,ê,íŽ¥<CfR[][fejBf"fO,μ,½CE~,ç'f[]P,ÅCE`[]-,³,ê,éfn[][fhfffBfXfN,Æ'î[]Æ"i,Ä,·[]BCE»[]ÝŽg,í,ê,é[]Ä,à^  
ê"É"i,Éftf[]fbfs[][fffBfXfN,ìftfH[][f}fbfg,í 3.5  
fCf"f^,Ä,·[]Bftf[]fbfs[][fffBfXfN,ð[]ufffBfXfPfbfg[]v,Æ,à,ç,ç,Ü,·[]B



## ftfHf<f\_


fffBfXfN□ä,Å 1 ,Â,İftfHf<f\_ ,İftf@fCf<,Ü,½,İftfHf<f\_ ,đ<L□q,·,éfffBf<EfNfgfŠfGf"fgfŠ.İfŠfXfg,Å\ □→,³,ê,Ü,·□BftfHf<f\_ ,İ't,É,İ'¼,İftfHf<f\_ ,đ"ü,ê,é,± ,Æ,ª,Â,«,é,İ,ÂftfHf<f\_ ,İff□İf^ ,đŠK'w•Ö□→,Â,«,Ü,·□BfffBfXfN,İŠî- {fRf"fefi,İf<□İfgfffBf<EfNfgfŠ,Å, ,è <t<É"İ,ÉfffBfXfN□ä,İ,·,x,Â,İftfHf<f\_ ,ª,»,±,É"ü,è,Ü,·□BWindows ,â¼,İ GUI ,İ%œ- É,ÂftfHf<f\_ ,İftfHf<f\_ ,İCE` ,đ,µ,½fAfCfRf" ,Å•\,³,ê,Ü,·□B


fcfŠ[]^ê—


fffBfXfN,if<[]fgfffBfCfNfgfŠ,đ<N“\_É,·,éfffBfXfN[]ã,iftfHf<f\_,ì•Ò[]-[]Bf<[]fgfffBfCfNfgfŠ,É,iftf@fC  
f<,âftfHf<f\_,^“ü,è,Ü,·[]B  
,»è,¼,è,iftfHf<f\_Ž©‘ì,É,iftf@fCf<,Ü,½,í¼,iftfHf<f\_,^“ü,è,Ü,·[]BftfHf<f\_,ìŠK‘w,đ[]-[],·,é,±  
,ì•Ò[]-[]‘ç,đftfHf<f\_fcfŠ[],Æ,ç,ç,Ü,·[]B

## ftfHfAfOf%ofEf“fh

ftfHfAfOf%ofEf“fh, ÅŽÀ□s't, lfAfvfŠfP□[fVf†f“, lfAfNfefBfufEfBf“fhfE, É•\  
Ž!,<sup>3</sup>, è, Ü, ·□BffftfHf<fg, Å, í□AftfHfAfOf%ofEf“fh, ÅŽÀ□s,<sup>3</sup>, è, éfAfvfŠfP□[fVf†f“, lfRf“fsf...  
□[f^, î^èŽYf^fXfN, Å, , è□AZc, è, lŽÀ□s't, lfAfvfŠfP□[fVf†f“, æ, è, à□, †“ä—l, Å CPU , l□^—  
□ŽžŠŌ, ðŽó, Žæ, è, Ü, ·□B fofbfNfOf  
%ofEf“fh, ÅŽÀ□s't, Æ□l, l, ç, è, éŽc, è, lfAfvfŠfP□[fVf†f“, í□AftfHfAfOf%ofEf“fhf^fXfN, l□^—□, ì'â•”•a,<sup>a</sup>  
—Ž, ž'..., Æ CPU , ©, ç, »., lfAfef“fVf†f“, ðŽó, Žæ, è, Ü, ·□B  
Windows NT/2000/XP , Å, lfftfHfAfOf%ofEf“fh, ÆfobfNfOf%ofEf“fh, lf^fXfN, ÉŠ,,, è“- , Ä, é'S'î“l, È□^—  
□fAfef“fVf†f“, ð•ì□X, Å, «, Ü, ·□B

 **Windows NT:** fRf“fgf□□[f<fpflf<, l□mfVfXfef€□n, Å□mfppftfH□[f}f“fX□nfy□[fW, ð•\  
Ž!, μ, Å□mfAfvfŠfP□[fVf†f“, l□^—□—D□æ“x□nfOf<□[fv, É, , éfXf%ofCf\_□[, ð“® , ©, μ, Å'²□®, μ, Ü, ·□B□A

 **Windows 2000:** fRf“fgf□□[f<fpflf<, l□mfVfXfef€□n, Å□m□Ú□x□nfy□[fW, ð•\  
Ž!, μ, Å□mfppftfH□[f}f“fXflfvfVf†f“(P)□n, ðfNfŠfbfN, μ, Ü, ·□B

 **Windows XP:** fRf“fgf□□[f<fpflf<, l□mfppftfH□[f}f“fX, Æf□f“fefif“fX□n, Å□mfRf“fsf...  
□[f^, ìŠî-{"l, È□î•ñ, ð•\Ž!, , é□n, ð'l, N□A□mfVfXfef€  
, lfvf□fpfefB□nf\_fCfAf□fOf{fbfNfX, Å□m□Ú□x□Y'è□nfy□[fW, ð•\  
Ž!, μ, Å□A□mfppftfH□[f}f“fX□nf{fbfNfX, l□m□Y'è□n, ðfNfŠfbfN, μ□A□mfppftfH□[f}f“fX, lfvf□fpfefB□nf\_  
fCfAf□fOf{fbfNfX, l□m□Ú□x□Y'è□nfy□[fW, ð'l'ð, μ, Ü, ·□B

## ftfH[f]fbfg

Ž¥<CfffBfXfN (,Ü,½,í¼,ì·Šúff[f^<L%~"}ì),đŽg,í,é,æ,α  
,É,·,é€"öBffBfXfN,ìftfH[f]fbfg,Æ,í'áfCfxf<ftfH[f]fbfgAfffBfXfN,ìfp[fe'fVf#f"•ªŠ,, (fn[fh  
fffBfXfN ,ìê±,ì,Ý)A,fCfxf<ftfH[f]fbfg,É,Ç,ì'ì,Å,·B

#### 4 • ũŒüŸ'è~A'zflffbfVf...

RAM ōă,ì"Á'è,ìèŸ,É, ,éff[f^,ðflffbfVf...,ì't,É, ,é 4 ,Â,ìèŸ,ì,Ç,±,©,ÉfRfs[.,,é,±  
,Æ,É,æ,Á,ÄŽÀŒ»,<sup>3</sup>,è,éflffbfVf...<ZpBflffbfVf...,<sup>a</sup> 4 ,Â,ì—  
ì^æ,Û,½,ÍZfbfg,É•<sup>a</sup>Ÿ,,,<sup>3</sup>,èA,»,è,¼,è,ì—ì^æ,<sup>a</sup>Æ—š,μ,½'¼Ÿf}fbfvfLffbfVf...,Æ,μ,Ä<@"\  
,μ,Û,·B

'f•D%oo»

ftf@fCf<,đ\□-.,éff□lf^,afffBfXfN□ã,ì~A'±  
,μ,É,ç□ê□Š,ÉŠi"[<sup>3</sup>,ê,é□ó'Ó□B,»è,¼,ê,ì'f•D,íftf@fCf<,ì^è•",ª"ü,Á,Ä,ç,é~A'±,μ,É,çfNf  
%ofXf^,Ä,·□B'f•D%oo»,íftf@fCf<,ìì□-□A^Ú"®□A□í□œ,É,Ç'É□í,ì□-□'t,É<N,«,Ü,·□B'f•D  
%oo»,μ,½□î•ñ,ì'f•D%oo»,μ,Ä,ç,É,ç□î•ñ,æ,è,à"Ç,Ý□',«fwfbfh,ì^Ú"®,<sup>a</sup>½,-  
,É,é•<sup>a</sup>,¾,ffBfXfN,©,ç,ì"Ç,ÝŽæ,è,ÉŽŽŠÔ,<sup>a</sup>,©,©,è,Ü,·□B'f•D%oo»,í□í□œftf@fCf<,đ  
%oñ•œ,Ä,«,É,çCE^ö,É,à,É,è,Ü,·□B'f•D%oo»%ođ□Á,àŽQ□Æ,μ,Ä,,¾,<sup>3</sup>,ç□B

## GDI

Graphics Device Interface ,ì—ª□B

**Windows 98/Me:** ftfHf"fg□A•`%œ—v'f□A□FŠÇ—□,đŽn,ß,Æ,·,é Windows ,lfOf%oftfBfbfN<@"\  
,đfTf|□[fg,·,éfCf"f^□[ftfF□[fX□BWindows ,É,ÍŽâ,ÉfTfufVfXfef€ ,Æ,μ,Äfj□[fjf<□AfOf  
%oftfBfbfNfXfffofCfXfCf"f^□[ftfF□[fX□USER\_fŠf□[fX,ì 3 Ží—p,ª, ,è,Û,·□B

## GDI fšf\[]fX

**Windows 98/Me:** Windows ,ì [GDI](#) ,ÉŠ,,,è“- ,Ä,ç,ê,½fšf\[]fX[]BGDI  
,ÍftfHf“fg[]Afvfšf~fefBfu,ì[]Ä•`%œ[]A []F,ìŠÇ—[],ðŠÚ,ß,Ä Windows ,ìfOf%oftfBfbfN<@”\,ðfTf|  
[]fG,μ,Û,·[]BWindows fTfufVfXfef€,Ífj[]f[]f<[]AGDI[][AUSER fšf\\[\]fX](#),Å[]\[]¬,³,ê,Û,·[]B



**fOf%oftfBfbfNfXfj[]fh**

fffBfXfvfCefCffofCfX,ifOf%oftfBfbfN<@"\ (fffBfXfvfCefC,È,Ç) ,ðTfj|  
[]fg,·,éŠg'£fj[]fh[]B[]ufffBfXfvfCefCfAf\_fvf^[]v,Û,½,Í[]ufrfflfj[]fh[]v,Æ,à,ç,ç,Û,·[]B



fOj%oftfBfbfNfXf[]fNfXfe[]fVf#f“

## fOf<[fvf{fbfNfX

ŠÖ~A,·,éfRf“f|□[flf“fg,ðfOf<□[fv,É•ª,¯,éf\_fCfAf□fOf{fbfNfX,ì GUI fRf“f|

□[flf“fg□BfOf<□[fvf{fbfNfX,í<«ŠE□ü,Æf^fCfgef<,Å□\

□¬,³,ê,Ü,·□BfOf<□[fvf{fbfNfX,ì†,É`fFfbfNf{fbfNfX,ÆflfvfVf†f“f{f^f“,ª“ü,Á,Ä,ç,é,±,Æ,ª,æ,, ,è,Ü,  
·□B

## fn [fhfffBfXfN

ff [f^, <L%¯, ÉŽg, í, è, éŽ¥<C”} ‘ì, ì 1 Ži Bfn [fhfffBfXfN, íftf [fbfs [fffBfXfN, Æ^Ù, È, è\_ “i\_«, ¢, È, -  
Žæ, è, í, , 1, Û, 1, ñ Bftf [fbfs [fffBfXfN, æ, è, à’½,, iff [f^, ð•Û’¶, Å, «A, Û, Æ, ñ, Ç, ìfp [fjif<fRf“fsf...  
[f^, É, Æ, Á, Ä, Ì’Šú“i, Èff [f^<L%¯, ìŽå—v’•u, Å, ·B

%oB,μ'®□«

,±,ìftf@fCf<'®□«,íffftfHf<fg,ÅfŠfXfg,É•\

Ž!,<sup>3</sup>,é,É,çfffBfCfNfgfŠfGf“fgfŠ,đŽ<sup>-</sup>•Ê,·,é,½,β,ÉŽg,í,è,Ü,·□B'Êí□A%oB,μftf@fCf<,â%oB,μftfHf<f\_í

DOS fvf□f“fvfg,Å DIR fRf}f“fh,ìŽÀ□sŽž,É•\Ž!,<sup>3</sup>,é,Ü,<sup>1</sup>,ñ□BfifvfVf†f“,Å Windows ,Ü,<sup>1</sup>/<sub>2</sub>,í DOS

fvf□f“fvfg,Å DIR fRf}f“fh,ìŽÀ□sŽž,É%oB,μftf@fCf<,â%oB,μftfHf<f\_đ•\Ž!,·,é,æ,α,ÉŽw'è,Å,«,Ü,·□B

'·,çftf@fCf<-¼,đ•\·,fffBfCfNfgfŠfGf“fgfŠ,É,íf{fŠf...□[f€f%oofxf<'®□«□A%oB,μ'®□«□A“C,ÝŽæ,è□ê

—p'®□«,□AfvfXfef€'®□«,ìfZfbfg,<sup>a</sup>, ,è,Ü,·□B,±,ìftf@fCf<'®□«,ì'g,Ý□‡,í,<sup>1</sup>,í'·,çftf@fCf<-¼,É“Á—

L,Å,·□B

**□,fCfxf<ftfH□[f}fbfg**

~\_—□fffBfXfN,đŽg,!,é,æ,α,É,·,é□€"ö,ì□^—□□BflfyfC□[fefBf"fOfVfXfef€  
,āfffBfXfN,đfAfNfZfX,·,é,½,β,ÉŽg,αff□[f^□\`¢,đ'Ç%oÁ,μ,Û,·□B,±  
,ì□€"ö,ì'iŠK,ÅfffBfXfN□ā,ìftf@fCf<•Ö□~,ì~'g'g (fu□[fgfCfR□[fh□AFAT□Af<□[fgfffBfCfNfgfŠ)  
,<sup>a</sup>□ì□~,<sup>3</sup>,é,Û,·□B□,fCfxf<ftfH□[f}fbfg,đ□u~\_—□ftfH□[f}fbfg□v□uf<ftfgftfH□[f}fbfg□v,Æ,à,¢,¢  
,Û,·□B

□,fCfxf<ftfH□[f}fbfg,íŽ¥<CfffBfXfN,đŽg,!,é,æ,α,É□€"ö,·,éXfefbfv,ì 1 ,Â,Â,·□B  
fn□[fhfffBfXfN,đŽg,!,é,æ,α,É,·,é□€"ö,í•"\_\_\_  
□ftfH□[f}fbfg□Afp□[fefBfVf†f"•<sup>a</sup>Š,,□A□,fCfxf<ftfH□[f}fbfg,ì□‡,É□i,β,Û,·□B

**fzfXfgfhf%ofCfu**

^3[]kfffBfXfN,lfzfXfgfhf%ofCfu,í,»è,ð•ÙŽ[],μ,Ä,ç,é"ñ^3[]k,ì•" —[]fhf  
%ofCfu,Ä,·[]B^3[]k,³,è,½fffBfXfN,í"Á•Ê,Ê%B,μftf@fCf< (^3[]kf{fŠf...[]f€,Æ,ç,ç,Ü,·)  
,Æ,μ,ÄfzfXfgfhf%ofCfu,ÉŠi"[,³,è,Ü,·[]BfzfXfgfhf%ofCfu,É,í^3[]kf{fŠf...  
[]f€ftf@fCf<,Æ,Æ,à,É'¼,ì"ñ^3[]kftf@fCf<,à"ü,Ä,Ä,ç,é,±,Æ,à, ,è,Ü,·[]B  
fffBfXfN,ð^3[]k,·,é,Æ[]AfzfXfgfhf%ofCfu,É,í•Ê,lfhf%ofCfu-¼,èŠ,,è"-,Ä,ç,è,Ü,·[]BDriveSpace  
,ðŽg,Á,Ä^3[]kfhhf%ofCfu,ð[][]-,·,é[]ê[]#[]AfzfXfgfhf%ofCfu,ð•\Ž|,μ,È,ç,æ,æ,É,·,é,±  
,Æ,à,Ä,«,Ü,·[]BfzfXfgfhf%ofCfu,ð%B,μ,½[]ê[]#[]A,±,lfhf%ofCfu,í[]mf}fCfRf"fsf...  
[]f^[]n[]A[]mWindows fGfNfXfvf[][]f%[]n[]A[]mftf@fCf<,ðŠJ,[]n[]A[]m-  
¼'Ö,ð•t,¯,Ä•Ù'¶[]nf\_fCfAf[]fOf{fbfNfX,É,í•\Ž|,³,è,Ü,¹,ñ[]B^3[]kfffBfXfN,lfzfXfg,è%B,³,è,Ä,ç  
,é,©,ç,æ,©,É,©,í,ç,·,·\Ž|,³,è,Ü,·[]B



**fcf[]fw**

Norton Utilities ,ì Image fv[]fOf%of€  
,³ffBfXfN,ìufXfjfbfvfVf‡fbfg[]v,đŽB,Á,Ä[]ì[]-,·,é“Á•Ê,Êftj@fCf<[]BfffBfXfN,ìd—v,È[]î•ñ  
([fu\[\]fgfCEfR\[\]fh\[\]AFAT\[\]Af<\[\]fg](#),ì[]î•ñ) ,ªŠi”[,³,ê,Ü,·[]B

## INI ftf@fCf<

.INI ,Æ,ç,¤Šg'fŽq,<sup>a</sup>•t,ftf@fCf< (INI ,í Initialization ,ì—<sup>a</sup>,Å,.)□BINI ftf@fCf<,íft□[fU□[□Y'è,Æfvf□fOf  
%of€,ì□%Šú□Y'è,É•K—v,É,»,'¼,ì□î•ñ,šSi"l,·,é,½,β,É'½,,ì Windows 3.x fAfvfŠfP□[fVf#f" (.Æ  
Windows 3.x Ž©'í) ,ÅŽg,í,ê,Ü,μ,½□B□Å<β,ì Windows ,Å,í,±,ì□î•ñ,ì,Ü,Æ,ñ,Ç,<sup>a</sup> Windows  
,ìfCfWfXfgfŠ.ÉŠi"l,<sup>3</sup>,ê□AINI ftf@fCf<,íŽã,Æ,μ,ÄCEÄ,çfAfvfŠfP□[fVf#f" ,Å,ì,YŽg,í,ê,Ü,·□B

## INT 13h

ftf[]fbfs[]lfffBfXfN,Æfn[]lfhfffBfXfN,Éî,.,éfZfnf^fÆfxf<,Å,ìfffBfXfN,ì“Ç,Ý[]’,«‘€[]ì,ù,Æ,ñ,Ç,ð^μ,π^  
ê”Ê“i,È BIOS,ì Š,,è[]ž,Ý[]B

## IDE

Integrated Drive Electronics , à—BfRf“fgf[]f%“dŽq<Z[]p,ðfhf  
%ofCfufn[]fhfEfFfA,Æ“[]µ,½fffBfXfNfRf“fgf[]f%ofCf“f^[]ftfF[]fX[]BIDE  
,í,»è,Û,ÅfRf“fgf[]f<fj[]fh,É'¼[]Ú“z'u,³,è,Ä,ç,½%o%oŽZ,ðfhf  
%ofCfu,É“[]µ,Û,µ,½[]B,»ìCE<%oÉ[]AIDE fhf%ofCfu,í}fU[]f{[]fh []ã,ì IDE  
fRfjNf^,ðŽg,!,é,ì,ÅfofXfXf[]fbfg,ª•K—v, ,è,Û,¹,ñ[]B

“à•”f□f,fŠfLffffbfVf...

80486 ^È□ă,ì CPU ,É“□□‡,³,ê,Ä,ç,éf□f,fŠfLffffbfVf...□B“à•”f□f,fŠfLffffbfVf...,í CPU ,<sup>a</sup> RAM ,É—  
v<□,·,é•p“x,<sup>a</sup>Ä,à□,,çff□[f^,ðŠi”[,μ,Û,·□B“à•”f□f,fŠfLffffbfVf...,í RAM ,Û,½,ÍŠO•”f□f,fŠfLffffbfVf...  
,æ,è,à,·,î,â, CPU ,Éff□[f^,ð’—,é,î,ÅfRf“fsf...□[f^,î□^—□’→“x,<sup>a</sup>”ò-  
ô“l,ÉŒü□ă,μ,Û,·□B“à•”f□f,fŠfLffffbfVf...,ð□u^êŽžfLffffbfVf...□v□ufŒfxf< 1 fLffffbfVf...□v□uL1  
fLffffbfVf...□v,Æ,à,ç,ç,Û,·□B

Š,,èž,Ý

CPU ,ÉŒ»Ÿ,ìì<Æ,ð'tŽ~,<sup>3,1</sup>MŸt,<sup>a</sup>Žw'è,·,é"Á•Ê,Ê-½—ß,ðŽÀŸs,<sup>3,1</sup>éfn[fhfEfFfAfffofCfX,Ü,½,ÍŸ  
ftfgfEfFfA,É,æ,Á,Ä'—ŸM,<sup>3</sup>ê,éŸMŸtŸB

## IO.SYS

**Windows 98/Me:** DOS ,[\ffofCfXfhf%ofCfo](#),i“ü,Á,½vfXfef€ftf@fCf<B[MSDOS.SYS](#)  
,àŽQÆ,μ,Ä,,¾,³,çB

## IRQ

“üo—Í|[]fg[]Afl[]f{[]fh[]AfffBfXfnfhf%ofCfo,È,Ç,ìfffofCfX,<sup>a</sup> [CPU](#) ,ÉfT[]frfX ([Š,èŽ,Ý](#)) ,ì—  
v<[],đ’—[]M,·,éfn[]fhfEfffA,ì%oňü[]B



## ISA

Industry Standard Architecture , ì—ª, Å□ufAfCfT□v, Æ"‰¹, μ, Ü, ·□B8 frfbfg, Ü, ½, Í 16  
frfbfg, ìfj□[fh, ðŠg' £fXf□fbfg, É□·, μ□ž, p, ±, Æ, É, æ, Á, Ä, ³, Ü, ´, Ü, ÈfffofCfX, Ì'□□Y, ð‰Å"\\, É, ·, éRf"fsf...  
□[f^fofX□YÇv, ì—Ž ©, Å, ·□BEISA , àŽQ□Æ, μ, Ä, , ¾, ³, ç□B

fLOI

## fŠfXfgf{fbfNfX

'l'ðžž,ìfìfvfVfþf",ìfŠfXfg,ð•\Žì,·,é GUI fRf"fj

□[fìf"fìg□Bfhf□fbfvf\_fEf"fŠfXfg,Æ^Ù,È,è□AfŠfXfgf{fbfNfX,ì□€-Ù,í•K,·\

Žì,<sup>3</sup>,è,Û,·□BfŠfXfgf{fbfNfX,ÉfìfvfVfþf",ð•\Žì,μ,«,è,È,ç□ê□#□AfŠfXfg,ì%o; ,ÉfXfNf□□[f;fo□],<sup>a</sup>•\

Žì,<sup>3</sup>,è□AfŠfXfgfEfBf"fhfE,ìŽì—p,É,æ,Á,Ä□ã%o°,Û,½,í□¶%oE,ÉfìfvfVfþf",ð^Ù"® ,Å,«,Û,·□B

## LAN

Local Area Network, ì—ª□B"äŠr"ICEÀ,ç,ê,½"í^"à (,½,Æ,ı,î 1 ,Â,ìCEš•""à)  
,É•žU"z'u,³,ê,éfRf"fsf...□[f^,ÆfffofCfX,ìfof<□[fv□B'É□MfŠf"fN,Å'ŠCEÝ,É□Ú'±,³,ê,Ü,·□BLAN  
,ìfffofCfX,í□Ú'±,³,ê,Ä,ç,é'¼,ìfffofCfX,Æ'î~b,Å,«,Ü,·□B  
'É□í□ALAN ,É,Í<α'É,É•K—v,Èfvf□fof%of€,âff□[f^,ð□ê-å,ÉŠi"l,·,éftf@fCf<ft□[fo□l  
(,Ü,½,í'P,É□ufT□[fo□[□v) ,ÆCEÀ,î,ê,éfRf"fsf...□[f^,ª, ,è□Aflfbfgf□□[fNft□[fU□[ª,±,ì□î•ñ,ð—  
v<□,·,é,Æ□v'¬,É%ž"š,μ,Ü,·□B

LAN

~\_—[]ffjBfXfN

~\_—[]ffBfXfN•Ò[]~

fIfyf[]feBf“fOfVfXfef€ ,[]ffBfXfN[]ä,ÉŠi”[ ,<sup>3</sup>,ê,½ff[]f^ ,ð•Ò[]~ ,·,é•û-@[]Bff[]f^ ,íffBfXfN•\ -  
Ê,ì,Ç,±,É,Å,àŠi”[ ,Å,«,é,ì,Å[]AIfyf[]feBf“fOfVfXfef€,íff[]f^ ,ìê[]Š,ð’Ç[]Ö,Å,«,é<L~^fVfXfef€  
,ðSm—š,μ,È,̄,ê,î,È,è,Û,<sup>1</sup>,ñ[]BIfyf[]feBf“fOfVfXfef€.íffBf[]fNfgfŠ,Æ[]è—L[]A<ó,«[]A•” —  
[]“l<sup>1</sup>[][],ì,½,ßŽg—p•s”\,ì•”•<sup>a</sup>,ð[]à-¾,·,éfCf“ffbfNfX,ð[]ì[]~ ,μ,Û,·[]B,±,ìŽí,íffBfXfN[]î•ñ,ð~ —  
[]ftfH[][f}fbfg,Æ,ç,ç,Û,·[]B [FAT\\_ftf@fCf<fVfXfef€](#),ì•Ò[]~ ,ÉŽg,í,ê,é [FAT](#) ,Æ [NTFS\\_ftf@fCf<fVfXfef€](#)  
,ì•Ò[]~ ,ÉŽg,í,ê,é MFT ,í~\_—[]ffBfXfN•Ò[]~ ,ì^ê•” ,Å,·[]B •”~—[]ffBfXfN•Ò[]~ ,Æ” äŠr,μ,Å,,¾,¾,¾,ç[]B

'•,çftf@fCf<-¼

DOS (,Æ Windows 3.x) ,iftf@fCf<-¼,ì•t,¯•û,É,í 8 fhfbfg 3 (,Â,Û,è 8 •¶Žš,Û,Â,iftf@fCf<-¼,Æ 3  
•¶Žš,Û,Â,ìŠg'£Žq,ðfsfŠflfh,Å<æ∅,é) ,Æ,ç,æ∅\$CEÀ,ª, ,è,Û,µ,½∅B'•,çftf@fCf<-¼,iftf@fCf<-¼,ð  
255 •¶Žš,Û,Â'•,,Å,«,é Windows ,ì<@"\,Å,∅B'•,çftf@fCf<-¼,É%∅Å,ì,Å∅A∅Å∅Vfo∅[fWf#f",ì  
Windows ,í^È'O,Éftf@fCf<-¼,ì†,ÉŽg,æ,Æ•s∅³,¾,Å,½•¶Žš ("¼Šp,ìfvf  
%∅fX•,,∅†∅Afff"f}∅AfZf~fRf∅f"∅AfZf~fRf∅f"∅A"™ ∅†∅A∅¶∅%∅E,ìŠpfjfbfR∅AfXfy∅[fX) ,ðfTf|  
∅[fg,µ∅A'•,çftf@fCf<-¼,ì'å•¶Žš,Æ∅¬•¶Žš,ì<æ•É,ð"½%∅f,µ,Û,∅B'•,çftf@fCf<-¼,ì [Unicode](#)  
•¶ŽšZfbfg,ðŽg,ç,Û,∅B



8 fhfbfg 3

**fXfgfNf%oXf^**

ff[f^,ª“ü,Ä,Ä,ç,é,ªftf@fCf<,Ü,½,ÍttHf<f\_,ÅŽg,í,ê,Ä,ç,È,çfNf%oXf^,ðŽ!,· FAT ,ì†,ìfGf“fgfŠB

**'áfCEfxf<ftfH[]f}fbfg**

ff[]f^,đŠi"[,Å,«,é,æ,ɹ,ÉŽŸ<CfffBfXfN,Ü,½,í¼,ì'Šúff[]f^<L%o~"}'ì,ì•\-Ê,ð€"ö,·,é^—  
[]B'áfCEfxf<ftfH[]f}fbfg,ífgf%oofbfN[]AfZfNf^[]AfffBfXfN,ìff[]f^<L%o~—ì^æ,đ—  
ÖŠsCE`[]-,·,é,½,β,É•K—v,É,»,ì¼,ìpf%of[]f^,đ'è` ,μ,Ü,·[]B, fCEfxf<ftfH[]f}fbfg,đ[]u•"—  
[]ftfH[]f}fbfg[]v[]fn[]fhftfH[]f}fbfg[]v,Æ,à,ç,ç,Ü,·[]B  
fn[]fhfffBfXfN,đŽg,ì,é,æ,ɹ  
,É,·,é€"ö,ì'áfCEfxf<ftfH[]f}fbfg[]Afp[][fefBfVf#f"•ªŠ,,[]A, fCEfxf<ftfH[]f}fbfg,ì[]‡,É[]i,β,Ü,·[]B'Ê[]í[]  
Aftf[]fbfs[][fffBfXfN ,ì'áfCEfxf<ftfH[]f}fbfg,ì, fCEfxf<ftfH[]f}fbfg,Æ"—Žž,É<N,«,Ü,·[]B

## ŽŸCffBfXfN

ŽŸŠE,đŽg,Á,Äff[f^,đŠi"[.,.éffBfXfN□B□Á,à^è"É"l,ÈŽí—  
p,ìŽŸCffBfXfN,ífn□[fhffBfXfN,Æftf□fbfs□[ffBfXfN,Á,□Bff□[f^<L%o¯,ÉŽg,í,è,é¼,ìŽí—  
p,ìffBfXfN (CD-ROM,È,Ç),à,è,Ü,;ª□AŽŸCffBfXfN,Æ,ç,æ—  
pCEé,í'É□í,í'P,É□uffBfXfN□v,Æ"˘,ÁŽg,í,è,Ü,□B

## MAPI

Mail Application Programming Interface, je sada B "džqf" [f<, ōftf] [fg, ·, é API Bf} fCfNf fA  
ftfg, É, æ, Á, ÄŠ", ³, ê DLL, Æ, μ, ÄŽÀŒ», μ, Ü, μ, ½ B

fVfXfef€ É MAPI DLL, ², ¶ Y, ·, é, ±

, Æ, ð" FŽ̄, ·, é fAfvfŠfP [fVf†f", Å, í A "džqf" [f<, ð'¼ Ú fAfvfŠfP [fVf†f", ©, ç' — M, Å, «, Ü, · B

## f}fXf^[]fu[]fgfCFR[]fh

fn[]fhfffBfXfN,ifzfNf^,É"ü,Á,Ä,ç

,é[]î•ñ[]Bf}fXf^[]fu[]fgfCFR[]fh,ífffBfXfN,ifp[]fefBfVf#f"fe[]fuf<,đŠi"[,μ,ÄfffBfXfN,ifAfNfefBfu,É

fp[]fefBfVf#f" (flfyfCF[]fefBf"fOfVfXfef€,đf[]fh,·,é,½,ß,ÉŽg,xfp[]fefBfVf#f")

,đŽ·É,μ,Ü,·[]Bf}fXf^[]fu[]fgfCFR[]fh,ífffBfXfN,đfp[]fefBfVf#f"•ªŠ,,,·,éŠÖ,É[]î[]-,³,è,Ü,·[]B

**MFT**

Master File Table ,ì—ª□B

**Windows NT/2000/XP:** [NTFS](#) —p,ÉftfH□[f}fbfg,<sup>3</sup>,è,½fffBfXfN□ã,ìftf@fCf<<L  
%oo~^æ,ð•Ò□¬,·,é,½,ß,ÉŽg,í,é,éfe□[fuf<□BMFT ,ìftf@fCf<,É,Â,ç  
,Ä,ì□î•ñ,ìfŠf□□[fVf#fif<ff□[f^fx□[fX,Á□\□¬,<sup>3</sup>,è,Ü,·□Bfe□[fuf<,ì□s,ífffBfXfN□ã,ìCEÂ□X,ìftf@fCf<,Éí  
%oož,μ□A—ñ,ìftf@fCf<,í'®□«,É'í%oož,μ,Ü,·□B,±  
,ì•ûŽ® ,Ä,ífffBf□EfnfgfŠ,ìftf@fCf<,Æ,μ,Ä^μ,í,ê□Aff□[f^ftf@fCf<,Æ,í'®□«,<sup>a</sup>^Ù,È,è,Ü,·□B

## □''!%°%ŽZfRfvf□fZfbfT

•,“@□-□“□”,đŽg,Á,Ä□''!CevŽZ,đ,·,éfvf□fZfbfT,Å□Af□fCf“ CPU ,Æ<æ•Ê,<sup>3</sup>,ê,Ü,·□BfCf“fef<,ì  
i486DX ,Ü,½,íf,fgf□□lf%°,ì 68040 ^È‘O,ì CPU ,đŽg,Á,½fpfVfRf“ ,Å,Í□A□''!%°  
%°ŽZfRfvf□fZfbfT,đ‘□□Ý,·,é,Æ□“ŠwŠÖ□”,âfOf  
%°ftfBfbfNfXŠÖ□”,ì-“x,<sup>a</sup>CEù□ă,μ,Ü,·□Bi486DX□A68040 ,Æ,»,ê^È□~,ì CPU f,fff<,Å,Í□Af□fCf“  
CPU ,É□''!%°%ŽZfRfvf□fZfbfTŠÖ□”,<sup>a</sup>g,Ý□ž,Ü,ê,Ä,ç,Ü,·□B



□Å'â%»

fEfBf"fhfE,ð□Å'â,ìfTfCfY,Ü,ÅŠg'â,·,é,±,Æ□B□Å'â

%»f{f^f",ðfNfŠfbfN,·,é,ÆfEfBf"fhfE,ª□Å'â,É,È,è,Ü,·□B(,·,Å,É□Å'â,É,È,Á,Ä,ç,é□ê±□A□Å'â

%»f{f^f",í•\Ž|,³,ê,Ü,¹,ñ□B'â,í,è,ÉĈ³,É-β,·f{f^f",ª•\Ž|,³,ê,Ü,·□B)

□Å□-%»³,ê,½fEfBf"fhfE,ð□Å'â%»·,é,É,í□Af^fXfNfo□[É, ,éfAfCfRf",ð

%»EfNfŠfbfN,μ□AfRf"fgf□□[f<f□fjf...□[,ì□m□Å'â%»(X)□n,ðfNfŠfbfN,μ,Ü,·□B

## MCI

Media Control Interface ,ì—ªBWindows fAfvfŠfP[fVf†f“,ª%º¹ºº,Æ  
%ºf'º,ìÄºº,â<L~^,ðŠÜ,ß,Äf}f<f`fºffjBfAfffofCfX,ðº\$CEä,Å,«,é,æ,¼,É,·,éº,º...  
º€fCf“f^º[ftfFº[fxºB

## ”}’ì<L□qŽqfofCfg

fffBfXfN,ìfu□[fgfEjR□[fh’t,É, ,Á,ÄfffBfXfN,ìŽí—p,ðŽì,· 1 fofCfg,ìî•ñ□Bftf□fbfs□[fffBfXfN,ìŽí—p  
(,½,Æ,ì,î□A1.44 MB ,ì 3.5 fCf“f` ,ìftf□fbfs□[fffBfXfN)  
,âfn□[fhfffBfXfN,ì<æ•Ê,ðŽì,μ,Û,·□B”}’ì<L□qŽq,í FAT ,ì 1 fofCfg-Ú,É,àŠi”[,³,è,Û,·□B

## f f, fš

ff[f^, aŠi"[, 3, êA, » , iŠi"[, 3, ê, ½ff[f^, ðCEÿ[ð, Å, «, éfRf"fsf...[f^fn[fhfEjFfA[B^è"Ê, Éf[f, fŠ, Æ, ç  
, x—pCEê, í [RAM](#) , ðŽw, μ, Ü, ·BfAfvfŠfP[fVf#f" , ðŽÀ[s, μAfvf[fOf%of€  
, iŽÀ[s+^êŽž"l, Éff[f^, ðŠi"[, ·, é, ½, ß, ÉŽg, í, ê, Ü, ·B

**f f, fŠf Afhf CefX**

fRf“fsf... [f^, if f, fŠ, ì'†, ì“Á'è, ìêŠ, ðŽì, ·d•; ì, È, ç Ž-•Ê”Ô† B [CPU](#) , í f, fŠf Afhf CefX, ðŽw'è, ·, é, ±  
, Æ, É, æ, Á, Ā f, fŠ, ì“Ç, Ý, «'€ì, ðŽÀs, μ, Ü, ·B

f□f,jŠ□í“fv□fOf%of€

**f f f f ...**

f f v j v f f f " , l f Š f X f g B f f f f ... [ , É , , é f l f v j v f f f " , đ f N j Š f b f N , · , é , Æ A " ® ì , a Ž À s , 3 , è , Û , · B

## fñfjf...ñ[fñ

'ÉñífEjBf“fhfE,ìñÅñã•”,É, ,é'••ûCE`,ìfññ[,Åñ\ñ¬,³,ê,é GUI fRf“f[ñ[fif“fgñBfñfjf...ñ[fññ[,ífñfjf...  
ñ[.ífŠfXfg,ð%ñ;É•Å,×,Å•Ž!,μ,Û,·ñBftñ[fUñ[.ªfñfjf...ñ[.Å 1  
,Å,ð'l'ð,·,é,ÆñA,»ê,ÉŠÖñEW,·,éflfvfVfñf“,ª•\Ž!,³,ê,Û,·ñB



**f[]bfz[]fw**

fAfvfŠfP[]fVf#f",ÆfAfvfŠfP[]fVf#f",<sup>a</sup>î[]¬,·,éEfBf"fhfE,<sup>a</sup>î•ñ,ð"`,|,é,½,ß,ì^èŽŸ"l,ÈŽè'i[]B,½,Æ,l,î  
[]Af{f^f",ðfNfŠfbfN,·,é,½,Ñ,Éf{f^f",<sup>a</sup>fNfŠfbfN,<sup>3</sup>,è,½,±,Æ,ðŽl,·f[]bfz[]fw,<sup>a</sup>fAfvfŠfP[]fVf#f",É'—  
,ç,é,Ü,·[]B

## MIDI

Musical Instrument Digital Interface , ì—ª, Å□uf~fffB□v, Æ"‰¹, μ, Û, ·□BfRf“fsf...  
□[f^□Afvf“fZftfCfU□AŠyŠí, ì□î•ñŒđŠ·, đ‰Å“\, É, ·, éf\ftfgfEjFfA, Æfn□[fhjEjFfA, ì•W□€□B

□Å□¬%»

fEjBf“fhfE,đf^fXfNfo□[,ìfAfCfRf“,É□k□¬,·,é,±,Æ□BfAfvfŠfP□[fVf†f“,í‘¼,ì□ì<Æ,đ,μ,Ä,¢  
,éŠŌ,ÉfobfNfOf%ofEf“fh,Åfvf□fOf%of€,đŽÀ□s,·,é,½,ß,É•p”É,É□Å□¬  
%»»,<sup>3</sup>,é,Û,·□BfEjBf“fhfE,ìf^fCfGf<fo□[,Å□Å□¬%»»f{f^f“,đfNfŠfbfN,·,é,Æ□AfejBf“fhfE,đ□Å□¬  
%»»,Å,<,Û,·□B□Å□¬%»»,μ,½fAfvfŠfP□[fVf†f“,đĈ<sup>3</sup>,ìfTfCfY,É-  
ß,·,É,ìf^fXfNfo□[,Å,»,ìfAfvfŠfP□[fVf†f“,ìf{f^f“,đfNfŠfbfN,μ,Û,·□B

f}fU[f{[fh

fRf“fsf...[f^“à•”,ižã%ñ~HŠî”Â□BCPU□Af□f,fŠf`fbfv□AfofXfRf“fgf□□[f%□A,»),ì¼,ì  
%ñ~H,ª”z’u,³,è,éŠî”Â□BŠg’£f{□[fh,È,Ç,ì¼,ìŠî”Â,àf}fU□[f{□[fh,É□Ú’±,Å,«,Ü,·□B

## f}fEf“fg

- “ — □ffjBfXfN□A~ — □ffjBfXfN□Afe□[fvfhf%ofCfu, ðfRf“fsf...□[f^, ðtf@fCf, fVfXfef€  
, ÉfAfNfZfX, Å, «, é, æ, α, É, ·, é, ±, Æ□B

## MPC fCExfx< 2

fp[]f\vfif<fRf“fsf...[]f^—p,ì•W[]€f}f<f`f[]fffBfA<@”\,ð<L[]q,·,é,½,ß,É Software Publishers Association ,ì PC []ì<ÆfOf<[]fV,ª’è<` ,·,éŽd—l[]B

MPC fCEfxf< 2 •W[]€ ,É[]€<’ ,·,éjVfXfef€ ,íŽŸ,ì<@”\,ð”ð,ì,Ü,·[]B

- 25 MHz 486SX ^È[]ã,ìf}fCfNf[]fvf[]fZfbfT
  - 4 MB ,ì RAM[]i[] , ,[]\$,ì 8 MB[]j
  - []F[]” 64KB ^È[]ã[]A%øð’œ“x,u,f,`[]i640[]~480[]j ^È[]ã,ìfrrfflfffBfXfvfCEfC’•’u
  - ½<ì,S,O,Of~fŠ•b^È%øø,ìfV[]fNŽžŠÔ,ì 2 ”{’~[]i2X[]j CD-ROM fhf
- %ofCfu[]Af}f<f`fZfbfVf#f“[]AftfHfg CD <@”\•t,«
- 16 frfbfg%ø¹[]ø<@”\

## MSDOS.SYS

**Windows 98/Me:** DOS ,ìj] [f]f<, à“ü,Á,Ä,ç,é [vfxfef€ftf@fCf<@BIO.SYS](mailto:vfxfef€ftf@fCf<@BIO.SYS) ,àŽQ [Æ,μ,Ä,-  
,¾,¾,ç [BDOS ,â [‰Šú,ì Windows ,Å,±,ìftf@fCf<,ìf]yf€ [fefBf“fOfVfXfef€,ìfAfNfefBfufRf“f] [f]f“fg,Å,μ,½ [B [Å<ß,ì Windows ,Å,í [Ý’èftf@fCf<,Å,· [B

## f}f`f^fXfN

1 'ä,lfRf"fsf...[f^,Å•i□",lfvf□fOf%of€,"~Žž,ÉŽÀ□s,Å,«,é,æ,α,É CPU ,δ<α—L,·,é,±  
,Æ□Bf}f`f^fXfN,Í^ê©,·,é,Æ•i□",l□^—□,ª"~Žž,É<N,«,Ä,ç,é,æ,α,É©,!,Ü,·□BŽÄ,í-{"-  
,É•i□",lfvf□fOf%of€,"~Žž,ÉŽÀ□s,Å,«,é,ì,i•i□",l CPU ,Æf}f`f^fXfN,δfTf|  
□[fg,·,élfyf□□[fefBf"fofVfXfef€ (Windows NT/2000/XP□AUNIX□AOS/2 ,É,Ç) ,δ"ö,!,½fRf"fsf...  
□[f^,ì,Ý,Ä,·□B'P^ê,ì CPU fVfXfef€,lf}f`f^fXfN<Z□p,δ<ìŽg,μ,Äf}f`f^—□,ì-í,í,δ,μ,Ä,ç  
,Ü,·□Bf}f`f^fXfN<Z□p,ì 2  
,Ä,Æ,μ,Äfvf□Egf"fvfefBfuf}f`f^fXfN,Æ<!'²"l,Éf}f`f^fXfN,ª ,è,Ü,·□B



**f|fbfgf[]fN**

ft[]fU[]ŠÔ,Åî•ñ,Æfn[]fhfEjFfA,ð<α—L,·,é-Ú“l,ÅA'ÊM%oňü,Ü,½,í,»,'¼,ìžè'i,Å'ŠŒÝ,ÉÚ'±  
,³,ê,½fRf“fsf...[]f^,ÆŠÖ~Afn[]fhfEjFfA,ìOf<[]fv[]B

f|f|b|f|g|f|□□|f|N|f|C|f|“|f|^|□|f|t|f|F|□|f|X|f|j|□|f|h

**f!fbfgf[]fNfT[]fo[]**

**f!fbfgf[]fN[]**ã,ì¼,ìRf“fsf...[]f^,³ftj@fCf<,ÉfAfNfZfX,Å,«,é,æ,α,É,μ[]A,»,ê,ç,ìRf“fsf...  
[]f^,É[]W'+CE^,ì<α—LjT[][frfX,ð (fvf[]fOf%of€[]A<L%oo^-æ[]A'Ê[]M,ðŠÜ,β,Ä) 'ñ<ÿ,·,éRf“fsf...  
[]f^[]B

## NIC

Network Interface Card , ì—ª□BfRf“fsf...□[f^, ð [LAN](#) , É□Ú'±, ·, é, Æ, «, ÉŽg, í, ê, é%œñ~HŠî”Â□B

## NMI

Non-Maskable Interrupt, [ifCxf"fg,đ,·,®](#), [É^—,·,é,½,β,ÉŽg,í,è,éŠ,,èŽ,ÝBCPU](#)  
,É, ,é"Á•Ê,Ê NMI fsf",É'¼ÚÚ'±,<sup>3</sup>,ê,Ä,ç,Ú,·B

•sŠö”□◀f□f,fš

“dĈ¹,ð□Ø,Á,Ä,àff□f^,ð•Ù,Ä,éŽí—p,ìfRf“fsf...□[f^f□f,fš□BROM□AEPROM□AEEPROM□Aftf  
%o**f**Vf...f□f,fš,í•sŠö”□◀f□f,fš,Å,·□B

## NTFS

NT File System, à Windows NT fífyfÇ[fefBf“fOjVfXfef€—p,ÉŠj”-  
,³,ê,½ftf@fCf<fVfXfef€BNTFS, í FAT ftf@fCf<fVfXfef€ ,æ,è,àÇø—|“l,É‘â—e—  
Êfn[fhfffBfXfN,Æftf@fCf<,ðTfj[f,µ,Û,·BNTFS,É,ífnfCfGf“fh,ìŠé<ÆÇü,`ftf@fCf<fVfXfef€  
,É,à“K±,·,é‘½,,ì<@”\,ª‘Ç%Á,³,ê,À,ç,Û,·B

- ‘g,Ýž,Ýff[f^fZfLj...fŠfefB
- “ñdff[f^Ši”[<@”\,É,æ,é-â‘è,ì<—e<,Æff[f^%ñ•œ
- ff[f^³k
- ,æ,èÇø—|“l,Èff[f^Ši”[,Æ‘â—e—Ê,ìfffBfXfN,âftf@fCf<,ì“Ç,Ýž,Ý

## fIfufWfFfNfg

□^—□□AfXfEfbfh□Aftf@fCf<□Af□f,Œ,İZfNfVf†f“□A•” —□fffofCfX,È,Ç□A<α—L%ooÂ”\,ÈfVfXfef€fŠf\ □[fX,đ•\,· Windows NT/2000/XP ,İ•W□€,İff□[f^CE^□BfŠf\□[fX,İCE^,²,Æ,É 1 ,Å,İfIfufWfFfNfgCE^,Å<L□q,³,ê,Ü,·□BfŠf\□[fX,đ•\,·fIfufWfFfNfg,²•K— v,É,É,é,Æ□AfIfyfCE□[fefBf“fOfVfXfef€ ,Í“K□Ø,ÈfIfufWfFfNfgCE^,İfCf“fXf^f“fX,đ□İ□¬,μ,Ü,·□BfIfufWfFfNfg,Í Windows ,İfIfufWfFfNfgf}f□[fWfffRf“f□[fIf“fg,É,æ,Å,Å□İ□¬,³,ê□A-¼’O•t,¯,³,ê□AŞÇ—□,³,ê,Ü,·□B



## ÍlfyfCE[]fefBf“fOfVfXfef€

fRf“fsf...[]f^Ž©‘ì,ð”® , © , ·Šî-{}\$CEä\ftfgfEjFfA[]BfRf“fsf...[]f^ ,ì<N“®Žž,É[]Å[]%  
,É[]f.f.Š,Éf[][]fh,³,êfRf“fsf...[]f^ ,ìŽÀ[]s’t,Éf[]f,fŠ[]ă,ÉŽc,éfvf[]fOf%of€[]BfÍlfyfCE[]fefBf“fOfVfXfef€  
,ÍfRf“fsf...[]f^ ,ÍfVfXfef€fŠf[]fX (CPU ,ì[]^—[]ŽžŠÔ[]Af[]f,fŠ[]AfffBfXfN—e—  
É[]AfvfŠf“f^ ,âffBfXfvfCEfC,É,Ç,ìŽü·Ó<@Ší) ,ìŽg,ç·û,ÆŠ,,,è“-  
,Ä,ð[]\$CEä,µ,Û,·[]B,·,x,Ä,ÍfAfvfŠfP[]fVf#f“,ÍlfyfCE[]fefBf“fOfVfXfef€,Æ‘í~b,µ,ÄfVfXfef€fŠf\  
[]fX,Ö,ÍfAfNfZfX,ðŽæ“¾,µ[]A,·,x,Ä,ÍfAfvfŠfP[]fVf#f“,ì<@”\,í[]YCEv’í[]Û,ÍlfyfCE[]fefBf“fOfVfXfef€  
,É,æ,Ä,Ä[]\$CEÄ,³,è,Û,·[]B

**OEM**

Original Equipment Manufacturer ,ì—ª□B, ,é%oižĐ,ª□»'č,μ,½fn□[fhfEjFfA,đ•Ê,ì%oižĐ,ª (•K—  
v,É%ž,¶,Äžè'¼,μ,μ) fpfbfP□[fW,đ□ì,è'¼,μ,Ä"ì" „, ,éCE`Ô,Û,½,Í,»,ì□»•i□B“ ,¶—pCEê,đf\  
ftfgfEjFfA,É,Â,č,Äžg,±,±,Æ,à, ,è,Û,·□B

fy[]fwftj@fCf<

fy[]fW[]^—[]

**Windows NT/2000/XP:** Windows ,Í,Ç,ì[]^—[],É,à 4 GB ,ì%¼'zfAfhfCFX<óŠÔ ([]^—  
[],Æ,»,ìfxfCFbfh,ªŽg,ì,éfAfhfCFX<óŠÔ) ,ð<-%Å,μ,Û,·[]B,μ,©,μ[]A,Û,Æ,ñ,Ç,ìfRf“fsf...  
[]f^,ªŽÅ[]Û,É“<[]Û,μ,Ä,ç,é•—[]ff,fŠ (RAM) ,í 4 GB -ç-ž,Å,·[]B—~—p%Å“\,È RAM ,ª,ç,Á,ì,ç  
,ì,Æ,«[]AWindows ,ìff[]f^,ì^è•”,ð^èŽž“ì,È RAM ,©,çfffBfXfN,É^Û“®,μ,Äff[]f,š,ð<ó,~,Û,·[]B,±  
,ìff[]f^,ì%¼'zf[]f,fŠDEF\_VIRTUAL\_MEMORY,ÉŠ,,è“-,Ä,ç,é,½,±,Æ,É,È,è,Û,·[]B  
fffBfXfN,É^Û“®,³,è,½[]î•ñ,ð[]^—[],Û,½,ìfxfCFbfh,ªfAfNfZfX,μ,æ,x,Æ,·,é,Æ[]AWindows ,Í—  
v<[],³,è,½ff[]f^,ðfffBfXfN,©,ç RAM ,É-ß,μ,Û,·[]Bff[]f^,ì[]ufy[]fW[]v,ÆCEÄ,ì,è,é,©,½,Û,è,Æ,μ,Ä  
RAM fffBfXfN,ìŠÖ,ð^Û“®,·,é,ì,Å[]A,±,ì[]^—[],ð[]ufy[]fW[]^—  
[]v,Û,½,ì[]ufy[]fWf“fO[]v,ÆCEÄ,Ñ[]A^èŽž“ì,Éff[]f^,ª“ü,éfffBfXfN[]ä,ì“Á•È,Èftf@fCf<,ðfy[]fWf“fO  
ftf@fCf<,Æ,ç,ç,Û,·[]B

**fpfŒfbfg**

%œ-Ê,ìF•t,̄,ÉŽg,κF,ìZfbfgB

**fp [fefBfVf#f#**

flfyfCE [fefBf"fofVfXfef€

,a'P^e,i'•'u,Æ,μ,Å^μ,κfn [fhfffBfXfN,i"•a□B'É□□AfffBfXfN,lfp [fefBfVf#f#,lfhf%ofCfu-¼,i  
%opŽš,ÅŽ^-•É,³,ê□A,»ê,¼,ê,δ^U,É,éftf@fCf<,âflfyfCE [fefBf"fofVfXfef€—  
p,ÉftfH□[f}fbfg,Å,«,Ü,□B

Windows NT/2000/XP ,l,æ,κ,É^è•",lflyfCE [fefBf"fofVfXfef€,í^U,È,é•" —□fffBfXfNfhf  
%ofCfu□ä,l•;□",lfp [fefBfVf#f#,δ (%opŽš 1 •qŽš,Å,lfhf%ofCfu-¼,ÅŽ^-•É,•,é) 'P^è,lfffBfXfNf{fŠf...  
□[f€,Æ,μ,Å^μ,|,Ü,□B,»κ,•,é,±,Æ,Åftf@fCf<fAfNfZfX,δ□, '¬%o»,Ü,½,lftfH□[f<fgfgfCEf%of"fx (1  
'ä,lfn□[fhfffBfXfN,ªCEì□á,μ,Ä,àVfXfef€,l'âŽ~ ,δ-h,®•ûŽ®) ,δŽACE»,Å,«,Ü,□B

,C,lfu□[fg%Å"lfn□[fhfffBfXfN,É,à"C^Ó,lflyfCE [fefBf"fofVfXfef€—p,l 1  
,Å,lfp [fefBfVf#f#,ª, ,è□AfRf"fsf...□lf^,l<N"® ,ÉŽg,κflfyfCE [fefBf"fofVfXfef€,δ,»,±

,ÉŠi"l,μ,Ü,□BflfyfCE [fefBf"fofVfXfef€,Å'P^è,lfn□[fhfffBfXfN,δ•i□",l~\_=  
□fffBfXfN,Æ,μ,Å^μ,|,é,æ,κ,É,•,é,É,l□Afn□[fhfffBfXfN,É□uŠg'£fp□[fefBfVf#f#□v,ªK—  
v,Å,□BŠg'£fp□[fefBfVf#f#,í 23 CEÅ,Ü,Å,l'Ç%oÅ,l~\_—□fffBfXfN,É%oª^É•ªŠ,,Å,«,Ü,□B

FDISK (Windows NT/2000/XP ,lfffBfXfNŠČ—□ft□[fefBfŠfefB) ,lfp [fefBfVf#f#,Æ~\_—  
□fffBfXfN,δ□□¬,•,é,±,Æ,É,æ,Å,Åfn□[fhfffBfXfN,δŽg,l,é,æ,κ,É□€"ö,•,éfvf□fOf%of€  
,Å,□Bfn□[fhfffBfXfN,δfp□[fefBfVf#f#,É•ªŠ,,•,é,Æf}fXf^□[fu□[fgfCEfR□[fh,Æfp□[fefBfVf#f#fe□[fuf<  
,ª□□¬,ª,è,Ü,□Bftf□fbfs□[fffBfXfN,Éfp□[fefBfVf#f#,l•K—v, ,è,Ü,¹,ñ□B

fn□[fhfffBfXfN,δŽg,l,é,æ,κ,É,•,é□€"ö,l•" —

□ftfH□[f}fbfg□Afp□[fefBfVf#f#"•ªŠ,,□A□,fCEfxf<ftfH□[f}fbfg,ì□‡,É□i,ß,Ü,□B

## fp [fefBfVf#f"fe [fuf<

• " — fffBfXfN, ì}fXf^ [fu [fgfCfR [fh, ì†, É, , éî• ñB• " — fffBfXfN, ðf|fyfC [fefBf" fOfVfXfef€  
, É• \C», , , é, ½, ß, É 1 , Â^ É ã, ìfp [fefBfVf#f" , ð'è< ` , μ, Û, ·B

## fpfX

fffBfXfN,iftfHf<f\_cjŠ□□,ì†,É,“,̄,é“Á`è,iftf@fCf<,Ü,½,iftfHf<f\_ìèŠ□Bftf@fCf<,Ü,½,iftfHf<f\_ìâ`îfp  
fX,íf<□□f□fffBfCfNfgfŠ.©,çŠJŽn,μ□A,»,ì%°^É,É, ,éftfHf<f\_ì-¼‘O,đ□‡,É—ñ<L,μ□Aftf@fCf<-  
¼,Å□,í,éĀ`Ž®,Å,·□B

PATH ,íflyfC□□[fefBf“fOfVfXfef€,ìŠÂ««•ï□”,ì-¼‘O,Å,à, ,è,Ü,·□BPATH ŠÂ««•ï□”,í•K—  
v,Èftf@fCf<,ªĀ»□Ý,iftfHf<f\_É,É,ç,Æ,«,ÉflfyfC□□[fefBf“fOfVfXfef€  
,ªĀÿ□đ,·,éftfHf<f\_ífŠfXfg,đ<L□q,μ,Ü,·□BPATH  
ŠÂ««•ï□”†,iftfHf<f\_ì□‡□~,íflyfC□□[fefBf“fOfVfXfef€,ªĀÿ□đ,·,é□‡□~,É,È,è,Ü,·□B



## PC fJ[fh

PC fJ[fhfXf[fbfg,ÉŽù,Ü,é,æ,α,ÉŸŒv,<sup>3</sup>,ê,½f,fff€[Afn[fhfffBfXfN[Aff[f^<L  
%~fffofCfX,É,Ç,lfRf“fsf...[f^,ìŽü•Ó<@Ší[B‘Éí,lf|[f^fuf<fRf“fsf...[f^,ÉŽg,í,ê,Ü,·[BPC  
fJ[fh,ìc%:jTfCfY,lfNfŒfWfbbfgfJ[fh,Æ,Ù,Æ,ñ,Ç“~,¶,ÅŒú,<sup>3</sup>,í,ç,ë,ç,ë,Å,·[BPC  
fJ[fhfCf“f^ [ftfF[fX,í PCMCIA (Personal Computer Memory Card International Association)  
,Å‘è<,<sup>3</sup>,ê,Ü,·[B^È‘O,í PC fJ[fh,ì,±,Æ,đ[uPCMCIA fffofCfX[v,ÆŒÄ,Ñ,Ü,μ,½[B

**fvf%ofOfAf“fhfvfCfC**

fRf“fsf...[f^,ìžü•Ó<@Ší,ðflfyfC[fefBf“fOfVfXfef€,É,æ,Á,ĂŽ©“®“l,ÉŸ’è,Ă,«,é<ÆŠE•W□€  
,l<@□□Bfvf%ofOfAf“fhfvfCfC,ª, ,é,Æfn□[fhfEjfFA,đ’g,Ÿ□ž,p,Æ,«,ÉfWfff“fp,â,»,l’¼,ìŸ’è,đŽè“®,  
Ă•l□X,·,éžèŠŌ,ª□É,□Afn□[fhfEjfFA,ì•l□XĚă,É (,½,Æ,l,Ī□APC fl□fh,đ’}“ü,μ,½,è|  
□[f^fuf<fRf“fsf...[f^,đfhfbfLf“fOfXfe□[fVf#f“,É,Ă,É,°,½Ěă,Ă) fRf“fsf...[f^,đ□Ă<N“®,·,é•K—  
v,ª,É,,É,è,Ū,·□Bfvf%ofOfAf“fhfvfCfC,lfVfXfef€<K-Ī,ìŸ’è,đ“®“l,É•ŪŽç,·,é,±  
,Æ,É,æ,Ă,Ă□A□Ă□V,ì□î•ň,đ’É□M,Ă,«,é BIOS ,âfvf%ofOfAf“fhfvfCfCfn□[fhfEjfFA,đfTf|  
□[fg,·,élfyfC□[fefBf“fOfVfXfef€,Æ~ACEg,μ,Ă“,«,Ū,·□B  
Windows 98/Me ,É,Ī’g,Ÿ□ž,Ÿfvf%ofOfAf“fhfvfCfCfTf|□[fg,ª, ,è,Ū,·□B,±,Ī<@“\  
,Ī□Ă□V,ì□Ÿ’è□î•ň,đfCfWfXfgfŠ,ÉŠi“[μ□A□Ÿ’è,É•Ī□X,ª<N,«,é,Æ,ç,Ă,Ă,à,»,ê,đ□X□V,μ,Ū,·□Bfvf  
%ofOfAf“fhfvfCfC,đfTf|□[fg,·,éAfvfŠfP□[fVf#f“,ĪfvfXfef€Ÿ’è,É•Ī□X,ª, ,é,Æ,ç,Ă,Ă,à Windows  
,É,æ,Ă,Ă’É’m,³,è,Ū,·□B

•" — fffBfXfN • Ò —

fffBfXfN \ ç, ð à - 3/4, ·, é ê ð †, É fffBfXfN ã, É • " — " I, É ' ¶ Ý, ·, é, à, ì, ð Ž w, μ, Û, · ð B, Û, 1/2, í A1, Â, ì • " —  
" I ' P ^ Ê, Â, , é fffBfXfN ' S ' ì, ð Ž w, · ê ð †, à, , è, Û, · ð B ~ — fffBfXfN • Ò —, Æ " ä Š r, μ, Â, , 3/4, 3, ç ð B

## f|lf

ff[f^,^Rf"fsf...[f^,Éo"ü,è,·,é,Æ,«,É'Ê%ß,·,éRf"fsf...

[f^,Ü,½,ífn[fhfEfFfAfffofCfX,ì^è" BfRf"fsf...[f^,í|

[fg,ð'É,μ,ÄvfŠf"f^ AfjBfXfvfCfC Af,fff€,ÆÚ'±,μ,Ü,· Bf|fg,É,æ,Á,Ä,íRf"fsf...[f^,ì"à"·,É,  
,è Af,fff€,ì,æ,α,É"à"·,ÄÚ'±,³,ê,Ä,ç,é,±,Æ,à, ,è,Ü,· B,»,ì,½,ßSO,©,çCE©,!,é|

[fg,ì",æ,è,à'½,,í| [fg,ì",ð•ñ,·,é,±,Æ,ª, ,è,Ü,· B

**f}f`f^fXfN**

f}f`f^fXfN, ì èž í BfIfyfCE [fefBf“foVfXfef€, a CPU, ì ^ — ŽžŠÔ, ðfRf“fsf...  
[f^, ÅŽÅs+t, ìfXfCEfbfh, ÉŠ,, è“- , Ä, Ü, · BfVfCEfGf“fvfefBfuf}f·f`f^fXfN, ìfXfCEfbfh, É^È‘¶, ·, é, ±  
, Æ, È, CPU, É-¾, “n, ·, ì, ÅA1, Å, ìfAfvfŠfP [fVf†f“, ðfVfXfef€, ð“Æè, ·, éŽ-Ô, ð-h, °, Ü, · B, ±  
, è, Æ‘î Æ“l, È, ì, a, ‘²“l, Èf}f`f^fXfN, Å, · B

Windows, í CPU ŽžŠÔ, ðuf^fCf€fXf%ofCfXv, Ü, ½, íuŽžŠÔ—Èv, Æ, †, x—  
£ŽU“l, ÈŽžŠÔ’P^È, ÅŠ,, è“- , Ä, Ü, · B, ±, è, ç, ìŽžŠÔ’P^È, ðfXfCEfbfh, ì’Š’l, È—Dæ“x, ÉŠî, Å, †  
, ÅfXfCEfbfh, ÉŠ,, è“- , Ä, Ü, · B—Dæ¶^È, í—  
v^ö, ì“, É^È‘¶, µ, Ü, · BfXfCEfbfh, ìfIfyfCE [fefBf“foVfXfef€, É, æ, Á, Å~A’±“l, ÉÄ—  
Dæ¶^È•t, ¯, ³, è, Ü, · B

## f}fEfX,ì¶f{f^f“

GUI ,ì‘€ò,ÅÅ,à,æ,Žg,xf}fEfXf{f^f“□B

•W□€,ì%oE—~,«—p,lf}fEfX,ì¶f{f^f“,ð¶f—~,«ft□[fU□[,É□#,x,æ,x,É Windows  
,lfRf“fgf□□[f<fpflf<,Å•ì□X,Å,«,U,·□Bf}fEfX,ì%oEf{f^f“,àŽQ□Æ,μ,Ä,,¾,¾,ç□B

**^êŽŸfEfBf“fhfE**

fAfvfŠfP□[fVf†f“,lŽâ—v,ÈfEfBf“fhfE□B□u^êŽŸ□v,Æ,ÍfAfvfŠfP□[fVf†f“,É,“,̄,éfEfBf“fhfE,ì<@“\ ,ðŽw,μ□A•K,„,μ,à 1 ,Â-Ú,Û,½,Í—B^ê,lfEfBf“fhfE,Æ,ç,α^Ó-¡,Å,Í, ,è,Û,<sup>1</sup>,ñ□B

□^—□

“Á'è,ìf^fXfN,ð□<□s,·,éfvf□fOf%of€□A,Ü,½,ìfvf□fOf%of€,ªŽÀ□s,·,é^ê~A,ìfXfefbfv□B

□^—□,ìfvf□fOf%of€,ì,½,β,ìšf\□[fXš,,è“- ,Ä,ìšî-{'P^Ê,Å,·□B1 ,Ä,ì□^—□,É,Í 1 ,Ä,ìfvf□fOf%of€Ž©'ì  
(fXfefbfv,ì□W,Ü,è,Æf^fXfN,ð□<□s,·,é,½,β,É•K—v,Ëff□(f^)^□Afvf□fOf%of€

,ªf^fXfN,ð□<□s,·,é,½,β,ÉŽg,ì,éf□f,fšfAfhf€fX<óšÓ□Afvf□fOf%of€,É•K—v,È,»,ì'¼,ìfvfXfef€fšf\  
□[fX,Å,·□Bfìfyf€□[fefBf“fOfVfXfef€,ì'¶□Y,·,é□^—□,Éšî,Ä,ç,Äf^fXfN,ð•Ò□¬,µfšf\□[fX,ðš,,è“-  
,Ä,Ü,·□B

,Ç,ì□^—□,É,à□Á'á 1 ,Ä,ìžÀ□s,ìfXf€fbfh,<sup>a</sup>, ,è,Ü,·□B,»,µ,ÄfvfXfef€fšf\□[fX,ð□Á,à€ø—!“ì,Éžg,ª  
,½,β,É□A,Ü,Æ,ñ,Ç,ì 32 frfbfg□^—□,É,ì•i□”,ìfXf€fbfh,<sup>a</sup>, ,è□A□^—

□,ìžÀ□s,É,Ä,è,ÄfXf€fbfh,<sup>a</sup>□ì□¬,<sup>3</sup>,è□í□œ,<sup>3</sup>,è,Ü,·□B



**PROM**

Programmable Read-Only Memory , ì—ª□B“Á•Ê, Èfn□[fhfEjFfA, ðŽg, Á, Äfvf□fOf%of€ , · , é [ROM](#)  
, ì^èŽí□B, ±, ê, ç, ìf`fbfv, ìf`fbfv, ì□»'ç□H'ö, ©, ç, í“Æ—§, μ, ½□H'ö, Æ, μ, Äfvf□fOf%of€  
, ã, ê, Ü, ·□B [EPROM](#)□[EEPROM](#)□[Aftf%ofbfVf...f□f,fŠ](#), Æ^Ù, È, è□A, ç, Á, ½, ñfvf□fOf%of€, μ, ½ ROM  
, í□Äfvf□fOf%of€, Ä, «, Ü, ¹, ñ□B

**fvf□f“fvfgf{f^f“**

fhf□fbfvf\_fEf“fŠfXfg,Ü,½,Ífhf□fbfvf\_fEf“fRf“f{f{fbfNfX,ì%oE,É•\Ž! ,³,ê,é%oo-î^ó,ª•t,ç  
,½□¬,³,çfAfCfRf“□BfNfŠfbfN,·,é,Æ□A'I'đfŠfXfg,ª-¼'O□‡,Ü,½,Í“ú•t□‡,É%oo•ûŒü,É•\Ž! ,³,ê,Ü,·□B

**fvf[]fpfefBfV[]lfq**

flfufWfFfNfg,lfvf[]pfefB,Ü,½,Ílfv[]Vf#f“,ð[]Ý’è,Å,«,éf\_fCfAf[]fOf{fbfNfX[]B

## fvf[]fefNfgf,[]fh

“@[]f,[]fh,ì 1 ,Â[]Bf[]f^f^XfN,đfTf|[]fg,μ 1 MB ,đ´,|,éf[]f,fŠ,đŽg,|,é,æ,α,É,·,éf,[]fh[]B  
Windows 98/Me ,Á,í [32-bit](#)fAfvfŠfP[]fVf#f“,ífvf[]fefNfgf,[]fh,ÁŽÀ[]s,³,ê[]A16-  
[bit](#)fAfvfŠfP[]fVf#f“,í’P^è,íf[]f,fŠ<óŠÔ,đ<α—L,μ,ÁŽÀ[]s,³,é,Ü,·[]BWindows NT/2000/XP  
,Á,ífAfvfŠfP[]fVf#f“,íf}f<f^fXfN,ÁŽÀ[]s,³,ê[]A16-bitfAfvfŠfP[]fVf#f“,í“Ç,β,Ü,<sup>1</sup>,ñ[]B  
[%o¼’z\[\]f,fŠ](#),đŽg,α,½,β,É,à CPU ,ífvf[]fefNfgf,[]fh,Á“@[]ì,·,é•K—v,<sup>2</sup>, ,è,Ü,·[]B

fvfbfVf...f{f^f“

## RAM

Random Access Memory, [i](#)—[a](#) [CPU](#)

,[Æ](#)¼, [ì](#)fn [\[](#)fhfE fFfAfffofCfX, [a](#)“Ç, [Ý](#)’ ,[«](#), [Å](#), [«](#), [é](#)”¼“ ±’ [ì](#)fx [\[](#)fX, [ì](#)Ž [â](#) <L%[o](#) [f](#) [f](#)Š [B](#)RAM , [ì](#)fRf“[f](#)sf...

[\[](#)f^ , [ì](#) [\](#) <Æf [\[](#)f, fŠ, [ð](#) [\](#) [\](#) [\](#) , [μ](#) [A](#)fRf“[f](#)sf... [\[](#)f^ , [Å](#)“[Z](#)ž, [É](#)Ž [À](#) [s](#), [Å](#), [«](#), [é](#)fvf [\[](#)fO [f](#)%[o](#)f€

, [ì](#)fTfCfY, [Æ](#)Æ [À](#)“[A](#) [u](#)Žž, [É](#) [^](#) — [\](#), [Å](#), [«](#), [é](#)ff [\[](#)f^ , [ì](#)—[É](#), [í](#) RAM , [ì](#)—[e](#)—[É](#), [É](#), [æ](#), [Á](#), [À](#)Æ^ , [Ü](#), [è](#), [Ü](#), [·](#) [B](#)

([fn](#) [\[](#)fhfffBfXfN, [ì](#), [æ](#), [x](#), [È](#)) [Ž](#) [x](#) <C” } [ì](#), [Ü](#), [½](#), [í](#) [PROM](#) , [É](#)Ši” [\[](#), [³](#), [é](#), [é](#)ff [\[](#)f^ , [Æ](#)^ [Ü](#), [È](#), [è](#) RAM

f [\[](#)f, fŠ, [ì](#)ff [\[](#)f^ , [ì](#) [u](#)Šö” [«](#) [v](#), [Å](#), [·](#) [B](#), [Å](#), [Ü](#), [è](#) [A](#)fRf“[f](#)sf... [\[](#)f^ , [ì](#)“[d](#)Æ<sup>1</sup>, [a](#) [Ø](#), [é](#), [é](#), [Æ](#) RAM

, [É](#)Ši” [\[](#) [i](#), [Y](#), [ì](#)ff [\[](#)f^ , [ì](#) [A](#)Ž , [μ](#), [Ü](#), [·](#) [B](#)

RAM , [ì](#)“[Z](#)ž, [É](#)Ž [À](#) [s](#), [Å](#), [«](#), [é](#)fAfvfŠfP [\[](#)fVf<sup>#</sup>“ , [ì](#)CE [À](#)“ , [ð](#) [\[](#), [â](#), [%\[o\]\(#\)¼’\[z\]\(#\)f \[\\[\]\(#\)f, fŠ, \[ì\]\(#\)•\[â\]\(#\)’\[«\]\(#\), \[Å\]\(#\) , \[é\]\(#\), \[±\]\(#\), \[Æ\]\(#\), \[a\]\(#\), \[æ\]\(#\), , \[è\]\(#\), \[Ü\]\(#\), \[·\]\(#\) \[B\]\(#\)](#)

, [Ü](#), [Æ](#), [ñ](#), [Ç](#), [ì](#) PC , [Å](#), [ì](#)Ž [â](#) <L%[o](#) [f](#) RAM , [ì](#) [DRAM](#) f`fbfv, [É](#), [æ](#), [Á](#), [Ä](#)—[p](#)^ [Ó](#), [³](#), [é](#), [Ü](#), [·](#) [B](#)’[É](#) [\[](#) [i](#) [APC](#)

, [ì](#)f [\[](#)f, fŠfAfnfZfX, [ð](#) [\](#), [·](#), [é](#), [½](#), [B](#), [É](#) CPU [Ž](#) [©](#) [ì](#), [ì](#)’[†](#), [É](#), [é](#)“[à](#)•”[f](#) [\[](#)f, fŠfLfffbfVf..., [â](#) [SRAM](#)

f`fbfv, [ð](#)Žg, [x](#)ŠO•”[f](#) [\[](#)f, fŠfLfffbfVf..., [ð](#)“[à](#)’ , [μ](#), [Ü](#), [·](#) [B](#)

æ“Ç,ÝfLffbfVf...

ffBfXfNfLffbfVf..., ÅffBfXfN, ©, ç, ìî•ñ, ìŽæ, è□o, μ, ð'¬, -  
, ·, é, ½, ß, Ê^ê”Ê, ÊŽg, í, é, éfLffbfVf...<Z□p□B, ±, ì<Z□p, ðŽg, Á, ÄfRf“fgf□□[f%o, í CPU , a—  
v<□, ·, éŽŸ, ìff□[f^, ð—\’^a, μ, æ, α, Æ, μ□A’O, à, Á, Äff□[f^, ð (’Ê□í, í CPU , afAfCfhf<□ó’Ô, ÌŠÔ, É) RAM  
, É”]’—, μ, Û, ·□BRAM , ©, çff□[f^, ðŽæ, è□o, ·, ì, ìffBfXfN, ©, ç“Ç, Ý□ž, p, æ, è, à’¬, ç, ì, ÅfLffbfVf...fqfbfg  
—, ìCE<%oÊ, ìfVfXfef€ , ì□^—□’¬“x, ìCEü□ã, É, Á, Ê, a, è, Û, ·□BVCACHE , ÆCEÄ, Ì, é, é Windows  
, ìffBfXfNfLffbfVf..., ìæ“Ç, ÝfLffbfVf..., Å, ·□B

“Ç,ÝŽæ,èé—p’@«

,±,ìftf@fCf<’@«,íä’,«AíœA^Ú”@,Å,«,È,çftf@fCf<,ðŽ·•Ê,μ,Û,·B

‘.çftf@fCf<-¼,ð\,·ffBfœfNfgfŠfGf“fgfŠ,É,í{fŠf...í{f%ofxf<’@«A%B,μ’@«A“Ç,ÝŽæ,èé  
—p’@«,AíVfXfef€’@«,íZfbfg,<sup>²</sup>,è,Û,·B,±,ìftf@fCf<’@«,ì’g,Ýí,í<sup>¹</sup>,í’,çftf@fCf<-¼,É“Á—  
L,Å,·B



**“Ç,Ý”, «fwfbfh**

Ž¥<CfffBfXfN, ífffBfXfN•\–Ê, É’í, µ, Äff□[f^, ð“Ç, Ý□’, «, ·, éfffBfXfNfhf%ofCfu, ì□\□–•”•i□B–<sup>1</sup>/<sub>4</sub>–  
Êftf□fbfs□[fffBfXfN, lfhf%ofCfu, É, ífffBfXfN, ì 2 , Ä, ì“Ç, Ý□’, «fwfbfh,<sup>a</sup>, , è□AfffBfXfN, ì•\, Æ  
– , ÉŽg, í, ê, Û, ·□Bfn□[fhfffBfXfNfhf%ofCfu, ìê□‡, É, í’É□í, í’<sup>1</sup>/<sub>2</sub>, , ì“Ç, Ý□’, «fwfbfh,<sup>a</sup>, , è□A%oo~”Ö,<sup>2</sup>, Æ, ì•\  
, Æ– , ÉŽg, í, ê, Û, ·□B

**fœfwxf^**

^èŽž“l,Éff[]f^<L%o¯—p,É [CPU](#),ª“à’ ,.é[],‘—f[]f,š,ì—ì^æ[]BCPU ,É,í,ç,-  
,Ä,à,ìfœfwxf^,ª, ,è,Ü,·[]B,ç,ìfœfwxf^gfš,à 2 fofCfg ,© 3 fofCfg,ìff[]f^,ì,ý,đš“l,μ,Ü,·[]B

## fCfWfXfgfŠ

fVfXfef€,âfAfvfŠfP[fVf+f“,ì<N“@AŸ’èA,»,ì¼,ìî•ñ,ìW’t“l,É<L%o-,·,é Windows  
,lff[f^fx[fXfBfCfWfXfgfŠ,í,·,x,Ä,ì’g,Ÿž,Ÿi,Ÿfn[fhfEfffA,Æ Windows  
flfyfC[fefBf“fOfVfXfef€—p,É-¾Ži“l,ÉŸCv,¾,é,½fCf“fXfg[f<i,ŸftfgfEfffA,É,Â,ç  
,Ä,ìî•ñ,ðŠi“[μ,Û,·BfCfWfXfgfŠ,í Windows,Äfvf%OfAf“fhfvfCfC,ðfTf][fg,Ä,«,é,æ,æ  
,É,·,é,½,ß,lfRf“f][f+f“fg,ì 1,Ä,ÄAfCfWfXfgfŠfL[ÆCÄ,ì,é,éj]fefSfŠ,É•Ö-,¾,é,Û,·B  
fCfWfXfgfŠ,í^È’O,É [AUTOEXEC.BAT](#) [ACONFIG.SYS](#) [AWIN.INI](#) [ASYSTEM.INI](#)  
,ÆCÄ[X,lfAfvfŠfP[fVf+f“,ì [INI.ftf@fCf<](#),º%oÉ,½,μ,½ Windows 3.x,ì<@“\,ì¼,ð’ă,í,è,É  
%oÉ,½,μ,Û,·B,±,é,ç,lfTf@fCf<,í^ê•”,lfn[fhfEfffA,Û,½,lf  
ftfgfEfffA,ÅŽg,í,é,é,ì,ÄCä•ûCÉŸ•,ì,½,ß,É,Û,¾ Windows,É’ŋŸ,·,é,±  
,Æ,ª,è,Û,·BfCfWfXfgfŠ,ìî•ñ,í SYSTEM.DAT,Æ USER.DAT,Æ,ç,æ 2  
,Ä,lfOfCfifŠftf@fCf<,ÉŠi“[¾,é,Û,·B SYSTEM.DAT,lfRf“fsf...  
[f^SÖ~A,ìÄVff[f^,ð•ÛŽç,μAUSER.DAT,í^Û,È,éft[fU[Û,Û,½,í-  
Û“l,ì,½,ß,É•;]“,lfVfXfef€Ÿ’è,ð•ÛŽç,Ä,«,Û,·B

## fWfXfgfŠfL

Windows ,ifWfXfgfŠ.ÉŠi”[,³,ê,Ä,ç

,éi•ñ,lfjfeSfSfBfWfXfgfŠfL[,ifWfXfgfŠ,ÉŠi”[,μ,Ä, ,éff[f^,ðCf“ffbfNfX•t, ,Ü,½,Í•Ò¬,·

,é,½,ß,ÉŽg,αŽè’i,Å,·BfWfXfgfŠfL[,É,Í¼,lfL[ (fTfufL[)

,âff[f^,ðŠi”[,Å,«,é,ì,ÅAfWfXfgfŠ,ÍŠK’w□’ç,ðCE`□¬,μ,Ü,·i

**CE³, ìFTfCfY, É-ß, ·**

fEjBf“fhfE, ðÅ'â%» , Ü, ½, íÅ¬-%» , ³, ê, é' O, ìFTfCfY, É-ß, ·, ±, ÆBCE³, ìFTfCfY, É-ß, ·f{f^f“ , ðNfŠfbfN, ·, é, ÆÅ'â%» , ³, ê, ½fEjBf“fhfE, ðCE³, ìFTfCfY, É-ß, ·, ±, Æ, ², Å, «, ·BfEjBf“fhfE, ìRf“fof□□f<f□fj...□□, ÅmCE³, ìFTfCfY, É-ß, ·(R)□n, ð'l'ð, Ü, ½, íf^fCfGf·fo□□, ÅCE³, ìFTfCfY, É-ß, ·f{f^f“ , ðNfŠfbfN, ·, é, ÆÅ¬-%» , ³, ê, ½fEjBf“fhfE (fAfCfRf“ ) , ²CE³, ìFTfCfY, É-ß, è, Ü, ·B(fEjBf“fhfE, ðÅ'â%» , µ, Ä, ç, È, ç, Æ, «, É, íCE³, ìFTfCfY, É-ß, ·f{f^f“ , í, È, □A'ä, í, è, ÉÅ'â%»f{f^f“ , ², , è, Ü, ·B) □Å¬-%» , µ, ½fAfVjŠfP□[fVf†f“fEjBf“fhfE, íf^fXfNfo□□, Åf{f^f“ , ðNfŠfbfN, ·, é, ±, Æ, É, æ, Å, ÅCE³, ìFTfCfY, É-ß, è, Ü, ·B

## %EfnfŠbfN

f}fEfX,ì%Ef{f^f“,đfNfŠbfN,·,é,±,Æ□BfftfHf<fg,Å,í□Af}fEfXfj□[f\ f,afCf“f^□[ftfF□[fX,ífífufWfFfNfg□ă,É, ,é□ó’Ô,Å%EfnfŠbfN,·,é,ÆfRf“fefLfXfgf□fjf...□[,<sup>a</sup>∖ Ž!,<sup>3</sup>,ê,Ü,·□BfRf“fefLfXfgf□fjf...□[,É,ífífufWfFfNfgCEÅ—L,ífífvfVf#f“,<sup>a</sup>—p^Ô,<sup>3</sup>,ê,Å,ç ,Ü,·□B□¶,«,«,íf+□[fU□[.í,½,ß,Éf}fEfXf{f^f“,İŠ,,,è” - ,Ä,đ□Ø,è’Ô,!,é,Æ□Af}fEfX,ì□¶f{f^f“,đfNfŠbfN,μ,½,Æ,«,ÉfRf“fefLfXfgf□fjf...□[,<sup>a</sup>∖Ž!,<sup>3</sup>,ê,Ü,·□B

## ROM

Read-Only Memory, i.e. BROM, YZæ, è%oÂ" \, Å, «ž, Y<ÖŽ~, ì"¼" ±'ìf, fš BROM f`fbfv, É, ívf fOf %of€ Af f^A, Ü, ½, í, » , ì¼•û, a"ü, Ä, Ä, ç, é, ±, Æ, a, , è, Ü, · BROM , É, í^ê"Ê, É PROM f`fbfv, Æ CD-ROM , ì 2 Ží—p, a, , è, Ü, · BROM , í^ê"Ê, É •sŠö" f, fš, Ä, · BfvfXfef€ BIOS -½—ß, ì, Ü, Æ, ñ, Ç, í ROM f`fbfv (ROM-BIOS) , ÉŠi" [, ³, è, Ü, ·, a AWindos , É, í, ç, , Ä, ©, ì ROM BIOS f< f` f" , É'ã, í, éCEÅ— L, ìf< f` f" , a—p^Ó, ³, è, Ä, ç, Ü, · B

## f<[]f9

f<[]fgffBfCefNfgfŠ,í~\_—[]ffBfXfN,ìtf@fCf<<L%o~[]\`¢

,ì“y’ä,Å,·[]Bf<[]fgffBfCefNfgfŠ,É,ìffBfXfN[]ã,ÉŠi”[,³,è,é[]Å[]ã^Ê,ìtf@fCf<,âftfHf<f\_,ì,½,ß,ìffBfCefN  
fgfŠfGf“fgfŠ,ª, ,è,Û,·[]B



**RS-232C**

VfŠfAf'ÉMÚ'±,ÉŠÖ,·,é<ÆŠE<KŠiBfffofCfXŠÔ,ìfVfŠfAf<ff[f^"´—,ð\$Eä,·,é,½,ß,ÉA"Á'è,ì  
%oñü (Ú'±fCf,,) ,ÆM+“Á«,<sup>a</sup>Zg,í,ê,Û,·B

**fXfPfwf...[f%o**

'¼,ì^— (fXfEfbfh“™) ,Æf^fXfN,đŠÇ—,·,élfyfCE[fefBf“fOfVfXfef€,ì^—B

## fXfNf[]f<fo[]

•¶[] ,Ü,½,ÍŠfXfg,ð[]A,» ,ê,ð•\Ž!,·,éEfBf“fhfE,É%ž,¶,Ä^Ú“® ,Å,« ,é GUI fRf“fj  
[] [f]f“fg[]BfXfNf[]f<fo[] [ ,í'É[]í[]A fEfBf“fhfE,âfŠfXfgf{fbfNfX,ì%oi,Ü,½,Í  
%oo,ì•”•ª,ÉCE»,ê,é[] ,¼,Ü,½,Í... •½,ìfo[] [ ,Å,·[]B

[]ufXfNf[]f<f{fbfNfX[]v,ÍfXfNf[]f<fo[] [ã,É•\Ž!,³,ê[]Afo[] [ ,É%oo^ ,Á,Äf}fEfX,Åfhf  
%oofbfo,µ,ÄfEfBf“fhfE“à,ÅfefLfXfg,ð^Ú“® ,Å,« ,Ü,·[]B

[]ufXfNf[]f<î^ó[]v,ÍfXfNf[]f<fo[] [ ,ì—¼' [ ,É•\Ž!,³,ê[]AfNfŠfbfN,·,é,ÆfefLfXfg,ð[] ,µ,¾,¯  
( 'É[]ífefLfXfg 1 []sª) fXfNf[]f< ,Å,« ,Ü,·[]BfXfNf[]f<f{fbfNfX,ÆfXfNf[]f<-  
î^ó,İŠ,ðfNfŠfbfN,·,é,Æ[]AfefLfXfg,ð^å•[] ,É ( 'É[]í[]A1 fy[]fW•ª,Ü,½,ì,» ,ìfEfBf“fhfE,ìfefLfXfg'Š“-  
ª) ^Ú“® ,Å,« ,Ü,·[]B

fXfNf□□[f<f{fbfNfX

## SCSI

Small Computer System Interface , ì—ª, Å òufXfjfw [òv, Æ”%º¹, µ, Û, ·òBfRf”fsf...

ò[f^, ðfn [fhfffBfXfN AfvfŠf”f^ òACD-ROM fhf%ºfCfu, È, Ç, ìfffofCfX, ÉòÚ’±

, ·, é, Æ, «, ÈŽg, í, ê, é•W ò€fCf”f^ òftfF ò[fX, ì^èŽí, Å, ·òB, Û, Æ, ñ, Ç, ì SCSI

fAf\_fvf^fj òfh, ÌòÚ’± òæ, ìfffofCfX, ÌŽí—p, ð’m, ç, È, , Å, àòÚ’±, Å, «, Û, ·òBòÚ’± òæ, É•K—v, È ððÈ ò, Ì

SCSI , Ì•W ò€, Éò€<’, ·, éòÚ’±, Å, , é, ±, Æ, Ì, Ý, Å, ·òB7 ‘ä, Û, Å, Ì SCSI fffofCfX, ð’ŠÈÝ, ÉòÚ’±

, µòA, »è, ðfRf”fsf... ò[f^, Ì SCSI f ò[fg, ÉòÚ’±, Å, «, Û, ·òB, ±, Ì, æ, æ, Èòò—, ðòufffCfW ò[f`fF ò[f”òv, Æ, ç

, ç, Û, ·òB

f}fEfX,ì%oEf{f^f“

Žg,æ%oñ□,ª□,È,ç•û,ìf}fEfXf{f^f“□Bf}fEfX,ì%oEf{f^f“,ðfNfŠfbfN,·,é,±,Æ,ð%oEfNfŠfbfN,Æ,ç,ç□A'½,,ì□ê□#fRf“fefLfXfgf□fjf...□□,ª•\Ž,³,è,Û,·□B

%oE—~,«—p,ìf}fEfX,ì%oEf{f^f“,ð□¶—~,«ft□[fU□□,É□‡,æ,æ,É Windows,ìfRf“fgf□□[f<fpf|f<,Å•ì□X,Å,«,Û,·□Bf}fEfX,ì□¶{f^f“,àŽQ□Æ,µ,Ä,,¾,¾,ç□B

“ňŽŸfEfBf“fhfE

^è”Ê,É^êŽŸfEfBf“fhfE,É”ä,x,Ä□¬,³,<@”\,à’á,čfAfvfŠfP□[fvf‡f“fEfBf“fhfE□B

## fZfNf^

fffBfXfN,ì•—□“l,È<L%~ì□Å□—P^Ê□B1 ,Â,ìfZfNf^,ífffBfXfN□ã,É, ,éff□[f^<L  
%~^æ,ìCEÊ,ìCE` ,ð,μ,½•”•ª,Å,·□BfffBfXfN,ì<L%~—ì^æ,íZÿ,ì,æ,α,É•Ö□—,³,è,Ü,·□B

• fffBfXfN•\—Ê,ìŠe—Ê (□ã%~º)

(fn□[fhfffBfXfN,É,í 3 ,Â^Ê□ã,ì—Ê,ª, ,è,Ü,·)

• fgf%~ofbfN (ŽŸ<CfffBfXfN,ì•\—Ê,É“~□S%~□ó,ì—Ö,Æ,μ,Ä□®—ñ,μ,Ü,·□BCD-ROM ,ìfgf  
%~ofbfN,ífffBfXfN,ì[,©,ç’t□S,É,ç,¹,ñ□ó,É’±,’P^êfgf%~ofbfN,Å,·)

• fZfNf^ (fgf%~ofbfN,ì 1 ,Â,ìCEÊ,ìCE` ,ð,μ,½•”•ª,ð□è,ß,Ü,·)

ff□[f^<L%~^æ,ì 1 ,Â,ìfZfNf^,ífffBfXfN□ã,Åfgf%~ofbfN,ì 1 ,Â,ìCEÊ,ìCE` ,ð,μ,½•”•ª,ð□è,ß,Ü,·□B  
1 fZfNf^,ìTfCfY (fofCfç□”) ,ìfìfyfCE□[fefBf“fofVfXfef€ ,É,æ,Á,ÄCE^,Ü,è,Ü,·□B



fZfCefNf^

Windows 98/Me: CPU ,<sup>a</sup>fvf<sup>ef</sup>Nfgf.□lfh,Å“@□ì,μ,Ä,ç,é,Æ,«,lfZfOf□f“fg fCefWfXf^,ì“à—  
e□BfZfCefNf^,lf□f,fS,ì“À“è,lfZfOf□f“fg,ð'è<` ,.é<L□qZqfe□lfuf<,lfGf“fgfS,ðZ~•É,μ,Ü,·□B

**fZfpfCE[f^ü**

1 ,Â,ifffj...[,đŠÖ~A,·,éffjf...[[€-Ú,<sup>2</sup>,Æ,ifOf<[fv,É•<sup>a</sup>Š,,·,é...•<sup>1</sup>/<sub>2</sub>,lüüB

## fVfŠfAf'ÊM

ff[f^, ð~A'±, ·, éfrfbfg, Æ, μ, Ä^ê"x, É 1, Â, , Â 1 -{, ì%ñü, ð'É, ¶, Ä'—M, ·, éfRf"fsf...  
[f^ŠÖ, Ü, ½, ífRf"fsf... [f^, ÆŽü•Ó'•'uŠÖ, íff[f^"'—B

**fVfŠfAf·fCf“f^[]ftfF[]fX**

fRf“fsf...[]f^,ÉfVfŠfAf<’Ê[]M<@”\,đ—

^,ı,éfCf“f^[]ftfF[]fX[]B’Ê[]í[]AfVfŠfAf·fCf“f^[]ftfF[]fX,í}fU[]f{[]fh,É·,μž,ρŠg’£f{[]fh,Å\  
[]→,³,êfVfŠfAf<f[]fg,àŠÜ,Ü,ê,Ü,·[]B

## **fVfŠfAf<f|[]fg**

**fVfŠfAf<É[]M**, ð, ·, é, ½, ß, ðRf"fsf...[]f^, ð"ü[]o—Í[]Ú'±[]B**fVfŠfAf<fCf" f^[]ftfF[]fX**, É[]Ú'±, ³, ê[]A'É[]í  
**RS-232C** Ć^fRf|fNf^, Å, ·[]B**fVfŠfAf<f|[]fg**, ðfRf|fNf^'P^É, Å[]î•ñ, ð"`, ð[]A, Ù, Æ, ñ, Ç, ÌŽí—  
p, ðfffofCfX, ÉŽg, æ, ±, Æ, º, Å, «, Ù, ·[]B

**f[]f**, : fRf"fsf...[]f^, É 2 ĆÂ, ðRf|fNf^, µ, ©, È, ç, ð, ð[]ASystem Information , º**fVfŠfAf<f|[]fg**, ð" , ð 3  
ĆÂ, ÆfĆf|[]fg, µ, ½[]ê[]±[]A**fRf"fsf...[]f^**, É•" —[]"l, É—p^Ó, ³, ê, Å, ç, é**fVfŠfAf<f|[]fg**, æ, è, à'½, -  
, ð**fVfŠfAf<f|[]fg**, ð**fVfXfef**€, ºŽ[], Å, ±, Æ, º, Å, «, é, ±, Æ, ðŽ!, µ, Å, ç, Ù, ·[]B



## fVf#[]fgjfbfgfL[]

f}fEfX,žg,Á,Äf[]fj...[][-Ú,đ'ı'đ,μ,È,-

,Ä,àfL[]f{[]fh,©,ç"Á'è,ıRf}f"fh,đŽÄ[]s,Ä,«,éL[][,ı'g,Ý[]#,ı,¹[]BfVf#[]fgjfbfgfL[],<sup>a</sup>, ,éf[]fj...[][-Ú,ı,ê[]#[]AfgjfbfgfL[][]ã,Ä[][-Ú-¼,ı%oE,ÉfVf#[]fgjfbfgfL[],ı'g,Ý[]#,ı,¹,<sup>a</sup>·\Žı,<sup>3</sup>,ê,Ü,·[]B

## **SIMM**

Single Inline Memory Module , à — a B1 , À , ì SIMM , í • i " , ì [DRAM](#) f`fbfv, ð " < ú , , é x ' , ç  
% ò ñ ~ H S î " Ö , Å , . B



**fXf%bfN**

fIfyfCE[]fEfBf"fofVfXfef€,íftf@fCf<,ì,½,ß,ì-ì^æ,ðfNf%ofXf^,ÆCEÄ,î,ê,é-fŽU"l,È  
%ò,Æ,μ,ÅŠ,,è"-,Ä,Ü,· (-\-ñ,μ,Ü,·)B,μ,©,μA,Ü,Æ,ñ,Ç,íftf@fCf<,áfffBfXfN[]ã,Å• " -[]"l,É[]è,ß,é  
-ì^æ,íIfyfCE[]fEfBf"fofVfXfef€,ª-\-ñ,μ,½,æ,è,à[],É,ç-e-É,Å,·[]BfXf  
%ofbfN,Æ,íftf@fCf<,íff[]f^,É[]è-L,³,ê,É,ç-V,Ñ,ífXfy[]fX,Å,·[]BCEÄ[]X,íftf@fCf<,ì,½,ß,É,ç  
,Ä,½,ñŠ,,è"-,Ä,ç,ê,½fffBfXfN-ì^æ,í[]A,Ü,©,ì,Ç,ñ,É-U"l,É,àŽg,í,ê,Ü,¹,ñ[]B,Ä,Ü,è[]AfXf  
%ofbfN,ífffBfXfN[]ã,ì,ρ,¾,É-ì^æ,Å,·[]B

💡 FAT32 ftf@fCf<fvfXfef€,í,æ,è[]-,³,çfNf%ofXf^,ðŽg,±,±,Æ,É,æ,Ä,ÄfffBfXfN,ífXf%ofbfN-e  
-É,ð[]Å[]-CEA,ÉCE, ,ç,μ,Ü,·[]B

## SRAM

Static [RAM](#),  $i - a, \lambda^{-1/4} \pm i f x [f X, i f f, f S, i \hat{e} \check{z} i \square BPC, i f f C f$  RAM,  $i, 1/2, \beta, \acute{E} \check{Z} g, i, \acute{e}, \acute{e}$  [DRAM](#)  
f`fbfv,  $\acute{A} \hat{U}, \acute{E}, \acute{e} \square ASRAM$  f`fbfv,  $i f R f$  "f sf ...  $[f \hat{e}, \acute{E}, \acute{a}, \acute{A}, \acute{A} \sim \acute{A}' \pm " i, \acute{E} \square u \square X \square V \square v, ^3, \acute{e}, \acute{e}, \pm, \acute{A}, \acute{E}, -$   
Ši"  $[i, \acute{Y}, i] \hat{i} \bullet \check{n}, \delta \hat{U} \check{Z} \square, \acute{A}, \ll, \acute{U}, \cdot \square B$

<N"@ftj@fCf<

**fXfe[f^fXfo]**

^—A<@“\A‘I’đ,μ,½€-Ú,É,Â,ç,Ä,ìî•ñ,đ•Ž!,·,é GUI fRf“f]

[fjf“fgB’ÉíAfXfe[f^fXfo][,ÍEjBf“fhfE,Ü,½,Í\_fCfAfOf{fbfNfX,ì%°•”,É•Ž!,³,ê,Ü,·B

## **fXfefbfv**

CPU f`fbfv, ì%º^ÊfŠfrfWf‡f“, ðŽw'è, ·, é, ½, ß, ÉŽg, í, ê, é'P^Ê□B, ½, Æ, í, î□APentium fXfefbfv 5 , Æ, ç, , ðŽw'è, ïf`fbfv, í Pentium fXfefbfv 4 , æ, è, à□, μ□X□V, ¸, ê, ½f`fbfv, Å, ·□B

Super VGA

## SVGA

fp[]f\ifjRf“fsf...[]f^,ÅŽg,í,ê,éfrffjlfAf\_fvf^f{[]fh,ì 1 Ží[]BPC ,ìfrffjlfjffBfXfvfCefC•W[]€,ì”-  
“W,É,“,ç,Ä SVGA ,í VGA ,ìĀě,ÅŠj”,<sup>3</sup>,ê,Û,μ,½[]BSVGA fj[]fh,í VGA fj[]fh,æ,è,à[],“x,É,ç,Ä, ©,ì  
%øð’œ“x,ð”ð,ì,Ä,ç,Û,·[]B

**fXf fbfvtf@fCf<**

Windows ,<sup>a</sup>%<sub>o</sub>¼'zf fŠ,Æ,μ,ÄŽg,κ%<sub>o</sub>B,μ ftj@fCf< BfXf fbfvtf@fCf<,í RAM  
,©,ç,ìî•ñ,đ^êŽŽ"l,ÉŠi"l,μ,Ä'¼,lfAfvfŠfP[fVf#f",<sup>a</sup> RAM ,đŽg,!,é,æ,κ,É,μ,Ü,· BWindows 98/Me  
,lfXf fbfvtf@fCf<,í WIN386.SWP ,Æ,ç,κ-¼'O,Å,· B

Windows NT/2000/XP

ŠÂ<<%<sub>o</sub>º,Å,lfXf fbfvtf@fCf<,đufy[fWf"fOf tf@fCf<v,ÆEÄ,Ñ APAGEFILE.SYS ,Æ,ç,κftj@fCf<-  
¼,<sup>a</sup>t,ç,Ä,ç,Ü,· B



## fVfXfef€—ì^æ

fIfyfCE[fefBf"fofVfXfef€

,âffBfXfN,âffBfXfN,ÉŠi"[,³,ê,½ftf@fCf<,ÉfAfNfZfX,·,é,Æ,«,ÉŽg,αî•ñ,ª"ü,Á,Ä,ç,éffBfXfN,ì—  
ì^æBffBfXfN,ìfVfXfef€—ì^æ,É,ífu[fqfCFR[fhAFATAf<[fgî•ñ,ª"ü,Á,Ä,ç  
,Ü,·B,Ü,Æ,ñ,Ç,ìfn[fhfffBfXfN,ìfVfXfef€—ì^æ,É,ífp[fefBfVf#f"fe[fuf<,à, ,è,Ü,·B

**fVfXfef€'®□«**

,±  
,[ìftf@fCf<'®□«](#),ìfvfXfef€ŠÖŒW,ìfffBfCefNfgfŠfGf"fgfŠ,đŽ`•Ê,µ,Û,·□BfvfXfef€'®□«,đ"đ,ì,½ftf@fCf<,ì—á,Í IMAGE.IDX (Norton Utilities ),ì Image fvf□fOf%of€,É'®,·,éftf@fCf<) ,Æ IO.SYS (fìfyfŒ□[fefBf"fOfVfXfef€,ìftf@fCf<) ,Å,·□BfvfXfef€'®□«,đ"đ,ì,½ftfHf<f\_ì—á,Í Windows ,ì,²,Ý" ,â FONTS ftfHf<f\_Å,·□B  
'·,çftf@fCf<-¼,đ·\,fffBfCefNfgfŠfGf"fgfŠ,É,ìf{fŠf...□[fef%ofxf<'®□«□A%B,µ'®□«□A"C.ÝŽæ.è□ê—p'®□«,□AfvfXfef€'®□«,ìZfbfg,<sup>a</sup>, ,è,Û,·□B,±,ìftf@fCf<'®□«,ì'g,Ý□‡,ì,¹,ì',çftf@fCf<-¼,É"Á—L,Å,·□B

fVfXfef€LjffbVf...

## fVfXfef€ftf@fCf<

fRf“fsf...[]f^,đ<N“® ,μ,½,è Windows

,đ<N“® ,μ,ÄŸ'è,·,é,Æ,«,ÉŽg,í,ê,éftf@fCf<,ìfOf<[]fv[]BWindows 98/Me ,É,ÍŽŸ,ìftf@fCf<,ª, ,è,Û,·[]B

- [AUTOEXEC.BAT](#)
- [CONFIG.SYS](#)
- [WIN.INI](#)
- [SYSTEM.INI](#)
- [SYSTEM.DAT](#)
- [USER.DAT](#)

,±,ê,ç,ìftf@fCf<,đ[]u<N“®ftf@fCf<[]v,Æ,à,ç,ç,Û,·[]B

fVfXfef€f[]jf...[]

**fVfXfef€f^fCf}[]f|[]fg**

fVfXfef€f^fCf}[] (, Û, ½, ÍfVfXfef€fNf[]fbfN) ,Æ'¼[]Ú'Ê[]M, ,é, ½, ß, ÉŽg, í, ê, éfn[] [fhfEfFfA, ì] []fg, Å[]AŽå, Éf^fCf}[] [Š, , è[]ž, Ý' – "x, ð•Í[]X, ,é, ½, ß, ÉŽg, í, ê, Û, ·[]B

## fVfXfef€ VM

Windows fAfvfŠfP[fVf#f“,a“@i,.,é%¼'zf}fVf“BfVfXfef€ VM  
,ífvf[feNfjg.f.[fh,Å“@i,μ,Û,·B32 frfbfg,ì Windows fAfvfŠfP[fVf#f“,í,»,ê,¼,ê,afVfXfef€ VM  
□ã,Åê—p,íf[f,š—ì^æ,ðš—L,μfvfCfGf“fvfefBfuf}f<f`f^fXfN,Å^—□,³,ê,Û,·BWindows 98/Me  
,Å,í16 frfbfg,ì Windows fAfvfŠfP[fVf#f“,ífVfXfef€ VM □ã,Å^P^ê,íf[f,š—ì^æ,ð<α—  
L,μ<!'²“l,Ëf}f<f`f^fXfN,Å^—□,³,ê,Û,·B

## SYSTEM.DAT

**Windows 98/Me:** ft[]fU[][,²,Æ,É•İ,í,é,±,Æ,ì,È,†fVfXfef€ŠÖŒW,ìfŒfWfXfgfŠ[]î•ñ,ª“ü,Á,Ä,†  
,éftf@fCf<[]BfŒfWfXfgfŠ[]î•ñ,ª“ü,Á,Ä,†,éŽå—v,ÈfVfXfef€ftf@fCf<,í SYSTEM.DAT ,Æ [USER.DAT](#)  
,Ä,·[]B



## SYSTEM.INI

fVfXfef€CEĀ—L,lfhf%ofCfo,ÆŸ'èŋ•ñ,ª"ü,Á,Ā,ç,é Windows ,ì<N"®ftf@fCf<BWindows 3.x ,ì  
SYSTEM.INI ,ÉŠi"[,<sup>3</sup>,ê,Ā,ç,½ŋ•ñ,ì,Û,Æ,ñ,Ç,í Windows  
fCfWfXfgfŠ.ÉĀ"z'u,<sup>3</sup>,ê,Û,μ,½B,½,<sup>3</sup>/<sub>4</sub>,μACEĀ,çfAfvfŠfP[fVf‡f",Æ,ìCEŸŠ·«,â Windows  
,ì^ê•",ì<N"®^—,ì,½,β,É SYSTEM.INI ,ì,Û,<sup>3</sup>/<sub>4</sub>'ŋŸ,μ,Û,·B

**fefLfXfgf{fbfNfX**

fvf[]Of%of€,É•K—v,È 1 []s (,Ü,½,Í•i[]"[]s) ,ì[]î•ñ,ð“ü—Í,·,é'•û€` ,ì GUI fRf“f[]lfif“fg[]B[]%o,ß,Ä•\  
Ž!,<sup>3</sup>,ê,é,Æ,«[]AfefLfXfgf{fbfNfX,Í'½,,ì[]ê[]‡,Í<ó”',Å,·,ª[]AfefLfXfg,ª“ü,Á,Ä,†,é,±,Æ,à, ,è,Ü,·[]B

## fXfCfbfh

"äŠr"l'â<k-Í,È□^—□,Ü,½,Ífvf□fOf%of€,ì^ê•"□B

•i□",lfXfCfbfh,Í□e□^—□,ÉŠ,,,è"-,Ä,ç,ê,½fAfhfCfX<óŠÔ,ÆfŠf\□[fX,ð<κ—L,μ,Ü,·□B□^—  
□,²,Æ,É□Á'á 1 ,Â,lfXfCfbfh,ð□□—,μ□A,Ü,Æ,ñ,Ç,Í□^—

□,É,Í•i□",lfXfCfbfh,ª, ,è,Ü,·□BfXfCfbfh,Í□e□^—□,ÌŽÀ□s't,É•K—v,É  
%ož,¶,Ä"®"l,É□□—,³,ê□í□œ,³,ê,Ü,·□B

fXfCfbfh (□^—□'S'ì,Ä,í,È,,»,ì^ê•") ,ÍfÍyfC□[fefBf"fofVfXfef€,ÅŠÇ—

□,³,ê□Af}f<f`f^fXfN,ÌŽA'•,É," ,é CPU ŽžŠÔ,ÍŠ,,,è"-,Ä,ÍŠî-{,Ä,·□BWindows ,ì [32](#)

[frfbfgfAfvfŠfP□\[fVf†f"](#),í½,,lfXfCfbfh,ðŽg,!,Ü,·□B,Ç,ì 32 [frfbfgfAfvfŠfP□\[fVf†f"](#),à□e□^—□,ÉŠ,,,è"-

,Ä,ç,ê,½f□f,Š,ð<κ—L,μ□AfXfCfbfh,ÍfvfCfGf"fvfefBfuf}f<f`f^fXfN,Å□^—□,³,ê,Ü,·□B [16](#)

[frfbfgfAfvfŠfP□\[fVf†f"](#) (Windows 3.x ,Æ DOS ,ÍfAfvfŠfP□[fVf†f") ,ÉfXfCfbfh,í 1 ,Ä,,Ä,μ,©,È,-  
□A,±,è,ç,lfXfCfbfh,Í<:'²"l,Éf}f<f`f^fXfN,Å□^—□,³,ê,Ü,·□B

**f^fcf}[]Š,,èž,Ý**

PC ,lfVfXfef€fNf[]fbfNf`fbfv,ÉŠÖ~A,·,éŠ,,èž,Ý,Í 2 ,Â, ,è,Ü,·[]BINT 8h ,Æ INT 1Ch  
,Å[]Af^fCf}[][Š,,èž,Ý,Æ'[][]ì,³,ê,Ü,·[]BfVftfgfEfFfA,af^fCf}[][,ÉŠÖ~A,μ,½'€[]ì,ð—  
v<[]·,·,é[]ê[]#[]A'Ê[]í INT 1Ch ,É,Â,È,¬,Ü,· ([]L,ç^Ó-j,Åft[]fU[]['€[]ì,ð-  
Ú"l,Æ,μ,½Š,,èž,Ý,ÆCE©,É,³,ê,Ü,·)[]BINT 8h ,É,Â,È,®,±  
,Æ,à, ,è,Ü,·,³CE«,ç'l'ð,Æ,ÍCE©,É,³,ê,Ü,¹,ñ[]B

fvf[]fOf%of€ ,É,æ,Á,Ä,í[]AfVfXfef€fNf[]fbfNf`fbfv,ª,±,ê,ç,ÌŠ,,èž,Ý,ð[]¶[]¬,·,·,é'¬"x,ð·ì[]X,·,·,é,±  
,Æ,ª, ,è,Ü,· (ffftfHf<fg,Í 1 ·bŠÖ,É 18.2 %oñ,Å,·)[]B·ì[]X,·,·,é[]ê[]#[]AfVf[]fOf%of€  
,ÍffftfHf<fg'¬"x,lfGf~f...fCE[]fVf#f",ð^ÛŽ[],·,·,é·K—v,ª, ,è,Ü,·[]B·ì[]X,μ,È,ç[]ê[]#[]AfVfXfef€Žž[][],Í[]³  
Šm,ÉŽž,ð[][],Ü,È,,È,è[]A,» ,l'¼,Í'€[]ì (ffBfXfN,ì"ü[]o—Í,È,Ç) ,ÍŽ, "s,μ,Ü,·[]B

## f^fCfgrfo

f^fCfgrfo, ifEjBf"fhfE, Ü, 1/2, if\_fCfAfOf{fbfNfX, ìã•", É•\

Ž!,<sup>3</sup>, êAfEfBf"fhfE, ÅŽÀs't, ifAfvfŠfP[fVf#f"-1/4, Ü, 1/2, if\_fCfAfOf{fbfNfX-1/4, ð•\

Ž!, μ, Ü, ·BfEfBf"fhfE, Æ^ê•", if\_fCfAfOf{fbfNfX, if^fCfgrfo, É, ifRf"fgf[f<fjif...], ÆÅ-  
%»AÅ'â%»ACE<sup>3</sup>, ifTfCfY, É-β, ·f{f^f",<sup>a</sup>, , è, Ü, ·

BfAfNfefBfufEfBf"fhfE, if^fCfgrfo, ìF, í"ñfAfNfefBfufEfBf"fhfE, if^fCfgrfo, ìF, Æ^Ü, È, è, Ü, ·B

**fgfOf<**

“®ŽĀ,Æ,μ,ÄŽg,⊗ê⊕⊗A”~,¶fRf“fgf□□f<,Ü,½,í“®□ì,É,æ,Á,Ä 2 □ó’ÔflfufWfFfNfg  
(f`fFfbfNf{fbfNfX,È,Ç) ,ì□ó’Ô,ð•í,ì,é,±,Æ□B  
-¼ŽĀ,Æ,μ,ÄŽg,⊗ê⊕⊗A”~,¶‘€□ì (flfufWfFfNfg,ìfNfŠfbfN,È,Ç) ,Å 2  
,Ä,ì□ó’Ô,ð□ø,è’Ô,ì,Ä,«,éflfufWfFfNfg□B

## fc[f<fo

fAfvfŠfP[fVf#f“fEfBf“fhfE,É 1 —ñ,É•\Ž|,³,è,éŠG•¶Žš,ìRf}f“fhf{f^f“B’ÉifEfBf“fhfE,ìfifj...  
[fo],ì^%º,É, ,è,Ü,·Bfc[f<fo[,ífEfBf“fhfE,Ü,½,ífAfvfŠfP[fVf#f“Á—  
L,ífifvVf#f“ ,Ü,½,ìRf}f“fh,Éf}fEfX,Å,·,î,â,fAfNfZfX,Å,«,Ü,·B

## fgf%oofbfN

fffBfXfN•\-Ê,î•" —□ftfH□[f}fbfg,î^ê•"□BfffBfXfN,î<L%~—î^æ,íŽŸ,ì,æ,α,É•Ò□¬,³,ê,Ü,·□B

- fffBfXfN•\-Ê,îŠe-Ê (□ã%oº)  
(fn□[fhfffBfXfN,É,Í 3 ,Á^È□ã,ì-Ê,ª, ,è,Ü,·)
- fgf%oofbfN (ŽŸ<CfffBfXfN,î•\-Ê,É"~□S%o~□ó,ì—Ö,Æ,μ,Ä□@—ñ,μ,Ü,·□BCD-ROM ,ìfgf%oofbfN,ìfffBfXfN,ì'[ ,©,ç't□S,É,ç,¹,ñ□ó,É'±,'P^êfgf%oofbfN,Å,·)
- fzfNf^ (fgf%oofbfN,ì 1 ,Á,ìCEÊ,ìCE` ,ð,μ,½•"•ª,ð□è,ß,Ü,·)



“]’—’¬“x

“]’—’¬“x, í 1 •bŠÔ,ÉfffBfXfN,©,ç“Ç,ÝŽæ,Á,ÄfRf“fsf...

□[f^,ìf□f,fŠ,É”z’u,Å,«,éfofCf□”,đŽw’è,μ,·□B,±,ì’a’èŠî€ ,ífffBfXfNfhf%oofCfu,ì^—□’¬“x,đ•]‰  
¿,·,é,½,ß,ÉŽg,í,ê,Ü,·□B

## TSR

Terminate-and-Stay-Resident ,l—ªBTSR fvfOf%of€ ,đuf,fší“vfvfOf%of€ ,Æ,à,ç,ç,Ü,·B  
fRf“fsf...[f^,ì RAM ,Éf[fh,³,èAŽÀs't,Å,È,,Ä,àf,fšă,ÉŽc,é DOS fvfOf%of€BTSR ,í  
Windows NT/2000/XP ,lfRf“fsf...[f^ă,Å,í“ ,«,Ü,¹,ñB

□í“fvf□fOf%of€

**fAf“fhfDftf@fCf<**

Norton Disk Doctor ,<sup>3</sup>fffBfXfN,đ□C•œ,;,é'O,É□i□-,;,éftf@fCf<□BNorton System Doctor ,Í•K—  
v,<sup>3</sup>, ,ê,Î□AfAf“fhfDftf@fCf<,É,æ,Ä,Ä•İ□X,ðCE<sup>3</sup>,É-ß,<sup>1</sup>,Ü,·□B

## Unicode

Windows 98/Me ,ì'.çftf@fCf<-¼,Æ Windows NT/2000/XP ,ÅŽg,í,ê,é•¶ŽšfZfbfg□BUnicode  
•¶ŽšfZfbfg,í 16 frfbfg (2 fofCfg) ,ìff□[f^,ðŽg,Á,Ä 1 •¶Žš,ð•\Œ»,.,é,ì,Å□A65,536 (2 ,ì 16 □æ)  
•¶Žš,Ü,Å,ì□d•;ì,É,çfR□[fh,<sup>a</sup>—p^Ó,<sup>3</sup>,ê,Ü,·□B

## UNC

Universal Naming Convention , à—Bflfbfgf[]fN, ÅÚ'±,³,ê,é (ftf@fCf<,³f[]fjff<fRf“fsf...  
[]f^[]ä,É'¶[]Ý,µ,È,ç,±,Æ,ª, ,é) fRf“fsf...[]f^,ðfTf|[]fg,·,é,½,ß,É[]^Ä,³,ê,½ftf@fCf<-¼,ì•t,¯•û,ì-  
ň'©[]B,±,ì•ûŽ®,Å,ífhf%oofCfu-¼,ÆfpfX,Æftf@fCf<,Å,í,É,[]AfpfX ,Æftf@fCf<-  
¼,ì'O,Éftf@fCf<,ª“ü,Á,Ä,ç,éflfbfgf[]fN,ì-¼'O,Æ 2 ,Ä,ì%~<L[]† (\\) ,ð•t,¯,Û,·[]B

**UMB**

## USER fšf\fx

**Windows 98/Me:** Windows User f,fWf... [f<-p,É-\-ñ,<sup>3</sup>,ê,½ RAM ,ì-ì^æ BUser f,fWf...  
 [f<,ÍfEjBf“fhfEŠÇ- ,ì-â'è,ð^ - ,μ Af\_fCfAf fOf{fbfNfX,â,»,ì'¼,ì GUI fRf“f| [f|f“fg,ð^ -  
 ,μ,Ü,· BWindows ,ì 3 ,Â,ìŽâ-vfTfufVfXfef€,Íj [f|f< AGDI AUSER fšf\fx,Â,· B



## USER.DAT

**Windows 98/Me:** ft[]fU[][ŠÖ~A, ðfWfXfgfŠ[]î•ñ, ª“ü, Á, Ä, ç, é Windows  
, ðftf@fCf<[]BfWfXfgfŠ[]î•ñ, ª“ü, Á, Ä, ç, éŽâ—v, ÈfVfXfef€ftf@fCf<, /E, µ, Ä USER.DAT , /E  
SYSTEM.DAT , ª, , è, Û, ·[]B



## VGA

Video Graphic Array , à Bfp [fif<fRf"fsf... [f^ , ÅŽg, í, è, éfrfffIfAf\_fvf^f{ [fh, ÌŽí—b BPC  
, ÌfrfffIfffBfXfvfCfC•W [€, Ì" "W, É, ", ç, Å VGA , Í EGA , ÌCěã, ÉŠJ" , ³, è, Û, μ, ½ BVGA fj [fh, É, Í, ç, -  
, Å, ©, ÌfrfffIf, [fh, <sup>a</sup>, , è, Û, , <sup>a</sup> AfOf%oftfBfbfN, ÆfefLfXfg, É, Å, ç, Å, Í 256 [F, Æ, ç, ɣ [€Å, <sup>a</sup>, , è, Û, , [B

f r f f f j o l f h

## VRAM

frfffi%oñ~H,É,æ,Á,Ä, '¬¼ÚfAfNfZfX,ª,Å,«,é“Á•Ê,ÈŽí—p,ì [DRAM](#) BVRAM f`fbfv,í'Êí,ì DRAM  
f`fbfv,æ,è,à,%,¿,Å,·B

## VIM

Vendor-Independent Mail, ì—ª□Bf□□[f^fXŽĐ,É,æ,Á,ÄŠJ”,³,ê□ADLL,Æ,μ,ÄŽÀŒ»,³,ê,½ API□B  
fVfXfef€,É VIM DLL,ª‘¶□Ý,·,é,±  
,Æ,ð”FŽ˘,·,éfAfvfšfP□[fVf#f“,Á,í□AfAfvfšfP□[fVf#f“,©,ç’¼□Úf□□[f<,ð’—□M,Å,«,Ü,·□B

**%o¼'zffofCfXfhf%ofCfo**

• i□", i%o¼'zf}fVf", ðfRf"fsf...□[f^, ÅŽÀ□s, Å, «, é"Á•Ê, ÈŽí—p, ðffofCfXfhf%ofCfo□B  
VxD ,ª 80386 fRf"fsf...□[f^, ð Windows ,É"±"ü,³,ê,½,Æ,«,"-□%o, ð<@"\, Í•i□", i%o¼'zf}fVf", ðfTf|  
□[fg, ·, é, æ, x, É Windows ,ðŠg'£, ·, é, ±, Æ, Å, µ, ½□BÆ»□Ý□AVxD , ðffofCfX,ªÆ—š, Å, «, é, æ, x  
, Éfn□[fhfEfffAfffofCfX,²,Æ, ð, ½, ß, É<α'Ê, ð<@"\fZfbfg, ð—p^Ó, µ, Å□A, æ, è""□"I, ÈffofCfXfhf  
%ofCfo, ð—ðŠ,, ð%oÊ, ½, µ, Ü, ·□B

fffBfXfvfÆfC, È, Ç, ð'P^êfŠf□[fX, ðŠÇ—□, ·, é, ½, ß, É□ÝÆv,³,ê,½fRf"fsf...□[f^fR□[fh, ðf, fWf...□[f<□B32  
frfbfg, ðfvf□fefNfgf, □[fh, Å"®□i, µ, Ü, ·□BVxD ,Æ, à, ç, ç, Ü, ·□BVxD , Í, ç, -  
, Å, à, ðfXfÆfbfh, ð""Žž, ÉŽÀ□s, Å, «, é, ð, Å VxD ,ª , é, ÆfŠf□[fX, ð<α—L, Å, «, Ü, ·□BVxD , ðf  
ftfgEfffA, à□\$Cä, µ, Ü, ·,ª, Ü, Æ, ñ, Ç, ðê±, É□\$Cä, ·, é, ð, ðfn□[fhfEfffA, Å, ·□BVxD ,Æ, ç, α—  
pCè, ð'è"Ê, É%o¼'zffofCfXfhf%ofCfo, ðŽw, ·, ½, ß, É, æ, Žg, ç, Ü, ·□B

VxD



## VFAT

ftf@fCf<,ì“ü□o—í“®□ì,ð□^—□,·,é DOS ,ìTfufVfXfef€ ,ðŠg'£,·,é Windows 98 ,ì<@“\□BVFAT ,í DOS ,Æ“~ ,ñ,æ,æ,æ,É FAT □\‘ç,ðŽg,ç,Ü,·,ª□ADOS ,Æ,í^Ü,È,è'·,çftf@fCf<-¼,ðfTf| □[fg,μ□A,Ü,Æ,ñ,Ç,ívf□fefNfgf.□[fh,Å“®□ì,μ,Ü,·□B

## %o¼'zf}fVf"

fn[]fhfEjFfAfffofCfX,ðfVf~f...fCE[]fg,·,éftfgfEjFfA,É,æ,Á,Ä[]ç,ê,éfRf"fsf...  
[]f^,ìŠÀ«[]BWindows ,Å,í[]A%o¼'zf}fVf",í"Æ—§,μ,½fRf"fsf...[]f^,ðfVf~f...  
fCE[]fg,μ[]A,» ,è,¼,è,³f[]f,ŠfŠf[]fX[]Aftf@fCf<fVfXfef€fT[]fRfX[]AfffofCfXfhf  
%ofCfo.[]AŽü•Ó<@Ší,Ö,lfAfNfZfX,È,Ç,lfTf[]fgfT[]fRfX,ð"ö,!,Ü,·BfVfXfef€ VM ,í Windows  
fAfVfŠfP[]fVf†f",ÉŽg,í,è,Ü,·BDOS VM ,í Windows 98/ME ,ì DOS fEfBf"fhfE,ÅŽÀ[]s,·,é DOS  
fAfVfŠfP[]fVf†f",²,Æ,ì,½,β,É 1 ,Á, , ,Ä[]- ,³,è,Ü,·B  
Windows ŠÀ«%oº,Å%o¼'zf}fVf",í%o¼'zf[]f,ŠfŠf}f[]fWff,É,æ,Á,Ä[]- ,³,è,Ü,·B[]- ,³,è,é  
%o¼'zf}fVf",ì 1 ,Á,í Windows Ž©'ì (fVfXfef€,ì%o¼'zf}fVf") —p[]A1 ,Á,í 16 frfbfg,ì Windows  
fAfVfŠfP[]fVf†f"—p[]A1 ,Á,í"ñ Windows fAfVfŠfP[]fVf†f"—p,Á,·B

%o¼'zf[f,fšf}fl[fWff

%¼'zf,fš

fvfOf%€ÉŽg,í,éf,fš,ì—e—Ê,ð,â,·,½,ß,ì<ZpBfn[fhfffBfXfNä,ì—ì^æ,ðŽg,Á,Ä [RAM](#)  
,ðVf~f...fC[fg,μ,Ü,·B,±,ì—ì^æ,<sup>a</sup> Windows ,ìXfìbfvftf@fCf<,Á,·B

u%¼'zf,fšv,Æ,ç,κ—pCê,íufXfìbfvftf@fCf<v,Æ“~<,ÁŽg,κ,±,Æ,<sup>a</sup>,è,Ü,·BRAM

,ÉfìyfC[fefBf“fOfVfXfef€,ÁfvfOf%€

,ðŽÁs,·,é,½,ß,ÉŽg,κfffBfXfN,ðŠÜ,ß,½ì<Æf,fš,ì±Cev,ðŽw,·^Ó-ì,ÁŽg,κ,±,Æ,à,è,Ü,·B

## VMM

Virtual Memory Manager (%0¼'zf}fŠf}f{fWff) ,ì—ªBWindows 98/Me:

%0¼'zf}fVf“, ð\$Œä, ,é Windows flfyfŒ[fefBf“foVfXfef€, Ìžå—v, ÈfRf“f{f{f“fgBWindows flfyfŒ[fefBf“foVfXfef€, È—p^Ó,³,ê,Ä,ç,éT[f{fX,ì”¼•ª^Èä,í VMM ,É,æ,Ä,ÄŽÀŒ»,³,è,Û,·B,± ,è,ç,ìT[f{fX,í (%0¼'zf}f, fŠ, ðŠÛ, ß, Ä, Ì) f{f, fŠŒÇ—A{f}f{f^fXfN, Ì, ½, ß, ÌXfŒfbfh, Ì— Dæ“xŒ^èAfn[fhfEjFfAffofCfX, ÌŒÇ—, È, Ç, Ì^fŒfxf<, ÌfyfŒ[fefBf“foVfXfef€<@”\, ð^µ, ç ,Û, ·B

Windows NT/2000/XP: Windows ,Í,Ç, Ì^—DEF\_PROCESS ,É, à 4 GB ,ì%0¼'zfAfhfŒfX<óŠÔ

(Œ^—,Æ,» ,ÌXfŒfbfh,ªŽg, Ì, éfAfhfŒfX<óŠÔ) ,ð<-%0Ä,µ,Û,·B,µ,©,µA,Û,Æ,ñ,Ç, ÌRf“fsf... [f^,ªŽÀÛ,É“<Û,µ,Ä,ç,é•—f{f, fŠ (RAM) ,Í 4 GB -ç-ž,Ä,·B—~—p%0Ä”\, È RAM ,ª, ç, Ä, Ì, ç , Ì,Æ,«AWindows ,ìff[f^, Ì^è•”, ð^èžž“Ì, È RAM ,©, çffBfXfN, È^Û“® ,µ, Äf{f, fŠ, ð<ó, ,Û, ·B, ±, Ì^ —, Ì VMM ,ª\$Œä,µ,Û,·B

fffBfXfN, È^Û“® ,³,è, ½Û^ñ, ð^—,Û, ½, ÌXfŒfbfh,ªfAfnZfX,µ,æ,x,Æ,·,é,ÆAWindows ,Í— v<,³,è, ½ff[f^, ðfffBfXfN, ©, ç RAM ,È-ß,µ,Û,·Bff[f^, Ìufy[fWv,ÆŒÄ, Ì,è,é, ©, ½,Û,è,Æ,µ,Ä RAM fffBfXfN, ÌŠÔ, ð^Û“® ,·,é, Ì, ÄA, ±, Ì^—, ðufw[fW^—

Ûv,Û, ½, Ìufy[fWf“fov,ÆŒÄ, ÑA^èžž“Ì, Èff[f^,ª“ü, éfffBfXfNä, Ì“Á•È, Èftf@fCf<, ðfy[fWf“fo ftf@fCf<,Æ,ç,ç,Û,·B

## Šö”□◀f□f,fš

“dĀ<sup>1</sup>,<sup>a</sup>∅,è,é,Æff□[f^,<sup>a</sup>□ÁŽ,,:éRf“fsf...□[f^,íf□f,fš,ìŽí—p□BDRAM f`fbfv (PC ,ìŽâ<L%o` RAM)  
,Æ SRAM f`fbfv,íf□f,fš,íŠö”□◀f□f,fš,Å,·□B

**f{fŠf...[f€ (~\_—[fffbfXfN)**

fRf“fsf...[f^,iff[f^,đŠi”[,·,é,½,ß,ÉŽg,í,ê,ééŠ□B,Ç,lf{fŠf...[f€,É,àRf“fsf...  
□[f^,ªŽ·Ê,·,é,½,ß,ìd·j,ì,È,çf%ofxf<,ª·t,«,Ü,·□B

1 ,Â,lf{fŠf...[f€,í 1 ‘ä,iffbfXfN□A1 ‘ä,iffbfXfN,ì^ê·”□A·j□”,iffbfXfN,ì^ê·”□A1 -  
{,lfe□[fv,É,Ç,l,ç,,ê,©,Â,□B’â—e—Ê,lf□[fhffbfXfN,ì,ç,,Â,©,l·”·ª,É·ªŠ,,Â,«,Ü,·□B,»,x  
,·,é,Æ□A,½,Æ,ì““,¶·” —[fffbfXfN,Éff□[f^,ª, ,Á,Á,àRf“fsf...[f^,ª·j□”,ì·ÊCEÀ,lf{fŠf...[f€  
,Æ,μ,Ä^μ,ç,Ü,·□B,±,ê,lf|fbfgf□□[fN,Å<α—L,³,é,é’âCE^fhf%ofCfu,É,æ,CE©,ç,ê,Ü,·□B“—  
l,É□A^ê·”,lf|fyfCE□[fefBf“fOfVfXfef€,í·j□”,lf□[fhffbfXfN,ì,ç,,Â,à,lf□[fefBfVf#f“,đ (%opŽš 1  
·¶Žš,lfhf%ofCfu-¼,ÄŽ·Ê,Â,«,é) ‘P^ê,lf{fŠf...[f€,Æ,μ,ÄCE<□‡,μ□ASg’£□«,ì□,,çftfH□lf<fgfgfCEf  
%of“fX (1 ‘ä,lf□[fhffbfXfN,ªCEì□á,μ,Ä,àVfXfef€,ì^âŽ~,đ-h,®·ùŽ®) ,đŽÀCE»,Â,«,Ü,·□Bf{fŠf...  
□[f€,đufffbfXfNf{fŠf...[f€□v,Ü,½,ì□u~ —[fffbfXfN□v,Æ,à,ç,ç,Ü,·□B,Ç,lf{fŠf...[f€,É,à“Æ—  
š,μ,½fu□[fafCEfR□[fh□Af<□[faffbfCEfNfafŠ□AftfHf<f\_fcfŠ□[.ª, ,è,Ü,·□B

f{fŠf...[f€f%ofxf'®□◀

,±,ìftf@fCf'®□◀,ĩ~\_—fffbfXfN,ì-¼'O,đŠi"l,μ,ÄfffbfCefNfgfŠfGf"fgfŠ,đŽ^-Ê,μ,Ü,·□B,½,Æ,!,î□A1  
'ä,ìfn□[fhfffBfXfN,Í 2 ,Ä^Ê□ä,ĩ~\_—fffbfXfN,Ä,Ü,èf{fŠf...[f€,É•ªŠ,,Ä,«,Ü,·□BfRf"fsf...[f^,í,±  
,è,ç,ìf{fŠf...[f€,ÉŽ©"®"l,Éfhf%ofCfu-¼,đŠ,,è"-,Ä,Ü,·ª□Af{fŠf...[f€  
,đ<æ•Ê,·,é,½,ß,É,à,Ä,Æ□à-¾"l,Éf{fŠf...[f€f%ofxf<,đŠ,,è"-,Ä,½,ç□ê□‡,ª, ,è,Ü,·□B  
'·,çftf@fCf<-¼,đ•\·fffbfCefNfgfŠfGf"fgfŠ,É,ìf{fŠf...[f€f%ofxf'®□◀□A%oB,μ'®□◀□A"C,ÝŽæ.è□ê  
—p'®□◀,□A[VfXfef€'®□◀,ìZfbfg,ª, ,è,Ü,·□B,±,ìftf@fCf'®□◀,ì'g,Ý□‡,í,¹,í',çftf@fCf<-¼,É"Á—  
L,Ä,·□B



"gCE`

"g, ìU•, aŽžŠÔ, É, Â, ê, Ä• ĩ%»», ·, é—lŽq, ð, ç, ç, Ü, ·B

## WIN.INI

fVfXfef€Ÿ'è,ÆfAfvfŠfP[fVf#f",lfvfCEftf@fCEf"fx,ü,Á,Ä,ç,é Windows  
,ì<N"®ftf@fCf<BWindows 3.x ,ì WIN.INI ,ÉŠi"[,³,ê,Ä,ç,½,Ü,Æ,ñ,Ç,ìî•ñ,Í Windows  
,ìfCEfWfXfgfŠ.ÉÄ"z'u,³,ê,Ü,μ,½B,½,¾,μACEÄ,çfAfvfŠfP[fVf#f",Æ,ìCEŸŠ·«,Æ^ê•",ì Windows  
,ì<N"®^—,ì,½,β,É WIN.INI ,í,Ü,¾'¶Ÿ,μ,Ü,·B

## fEjBf“fhfE

ff[f^,ð•\Ž!,μAf+[]fU[],³fAfvfŠfP[]fVf+f“,Æ’î~b,Å,«,—ì^æ,ð’ñ<Ÿ,·,é GUI fRf“f[]fj“fg[]B  
fAfvfŠfP[]fVf+f“,ì’t,Å,ì<@\,É,æ,Á,Ä[]AfejBf“fhfE,í’â,«, 2 Ží—p,É•²,©,ê,Ü,∴

• ^êŽŸfEjBf“fhfE

— ,Ü,Æ,ñ,Ç,ì[]î•ñ,²•\

Ž!,³,ê,éfAfvfŠfP[]fVf+f“,ìf[]Cf“fEjBf“fhfE[]B^êŽŸfEjBf“fhfE,í’Ê[]í,í•¶[]’fEjBf“fhfE,Å,·[]B

• “ñŽŸfEjBf“fhfE

—

fVf[]fpfefBfV[]fg[]Af\_fCfAf[]fOf{fbfNfX[]Af[]fbfZ[]fW,Ü,½,ÍjpfCEfbfg,È,Ç[]AfvfŠfP[]fVf+f“,²Žg,κ

•â[]•fEjBf“fhfE[]B

**fEjBf“fhfEjR□[fi□[**

fEjBf“fhfEjR□[fi□[ €, ì 4 , Â, ÌŠp□B”C^Ó, ìfEjBf“fhfEjR□[fi□[, ðfNjŠfbfN, μ, Ä'ì'ð, μ, Ä, ©, çf}fEjX, Åfhf  
%oofbfO, ·, é, ÆfEjBf“fhfE, ìfTfCfY, ð•ì□X, Å, «, Ü, ·□B

## fEfbf“fhfEftfCE[]f€

fEfbf“fhfE,đ^í,p×,ç~gü[]BftfCE[]f€,ì^è•Ó (fEfbf“fhfEfr[]fi[][ŠÔ)

,đfNfŠfbfN,μ,Ä'í'đ,μ,Ä,©,çf}fEfx,Åfhf

%ofbfO,·,é,ÆfEfbf“fhfE,ì,,<sup>3</sup>,Ü,<sup>1</sup>/<sub>2</sub>,í•,đ•ĩ[]X,Å,«,Ü,·[]BftfCE[]f€,ìŠp (fEfbf“fhfEfr[]fi[][])

,đfNfŠfbfN,·,é,Æ[]AfEfbf“fhfE,ì,,<sup>3</sup>,Æ•,đ“~Žž,É•ĩ[]X,Å,«,Ü,·[]B

## fNfXfeVfj

'½,,Í UNIX flfyfC[fefBf"fofVfXfef€,ª" @ì,.,é<—Í,ÈfVf"fof<ft[fU[fRf"fsf...  
[f^Bf[fNfXfeVfj",íŽå,É,"x,ÈfOf%oftfBfbfNfX,âfRf"fsf...[f^Žx%o†—  
pÝCv fAfvfŠfP[fVfj",ÉŽg,í,è,Û,·B ufOf%oftfBfbfNfXf[fNfXfeVfj"v,Æ,à,ç,ç,Û,·B  
Å&A,±,ì—pCè,ífbfqf[fN,É•t'®,.,éfbf qf[fNfT[fof,Å,í,È,çfRf"fsf...[f^,ÉŽg,í,è,Û,·B

## fu [fgfEjBf<fX

fn [fhfffBfXfN,Æftf [fbfs [fffBfXfN,ifu [fgfCEfR [fhfvf [fOf  
%of€ [Afn [fhfffBfXfN,if}fXf^fu [fgfCEfR [fhfvf [fOf%of€,ÉŠ´ [ö,.,éfEjBf<fX [Bfu [fgfEjBf<fX,í  
DOS ,æ,è,à [æ,Éf [f,Š,Éf [ [fh,<sup>3</sup>,ê,ÄfRf“fsf...  
 [f^,ð [§CEä,μ [AfAfNfZfX,·,é,·,×,Ä, [ftf [fbfs [fffBfXfN,ÉŠ´ [ö,μ,Ü,· [Bfu [fgfEjBf<fX,ÉŠ  
´ [ö,·,é,Æ [AS´ [ö,μ,½fffBfXfN,©,ç, [fRf“fsf... [f^,ð,Ü,Ä,½,<N“® ,Ä,«,,É,,É,é,±,Æ,<sup>a</sup>, ,è,Ü,· [B

Š'öftj@fCf<

fEjBf<fX,ª□N"ü,µ,½ftj@fCf<



•i□‡Š´□öŒ^fEfBf<fX

fvf□fOf%of€,Æfu□[fgftf@fCf<,ì—¼•û,É%oe<¿,μ□A, ,éŽí—p,ìftf@fCf<,©,ç•Ê,ÌŽí—  
p,ìftf@fCf<,É“`□ö,·,éfEfBf<fX□B

'½CE`ÔfEfBf<fX

∅<',É,È,éfR[fhfZfOf"fg,ð•İX,μ,ÄAŠ'öftf@fCf<,É,æ,Á,ÄCEY,ç

,É^Ù,È,éfEfBf<fX,ÉCE©,!,é,æ,α,É,μ,Ä,μ,Û,αŽí—p,İfEfBf<fX,ÅA,»,ì,½,ßCEÿo,ª,æ,èç"i,Å,·B

**fvf fOf% f€fEjBf<fX**

ŽÀs%oÂ"fvf fOf% f€ftf@fCf<,ÉŠ' õ,·,éfEjBf<fX,ÅA'½,-  
,ìê# .COMA.EXEA.OVLA.DRVA.SYSA.BIN ,ì,ç,,ê,©,ìftf@fCf<Šg'£Žq,<sup>a</sup>•t,«,Û,·Bfvf fOf  
%f€fEjBf<fX,ífvf fOf% f€ŽÀsCEä,àfRf"fsf...[f^,ì"dCE<sup>1</sup>,ðØ,é,Û,Åf,f,Šã,ÉŽc,é,±,Æ,<sup>a</sup>,è,Û,·  
B

**fXfef·fXCE^fEfBf<fX**

Œ©,Â,̄,É,,ç,æ,π,É□ĭ<É“l,ÉŽp,ð%°B,»π,Æ,μ□AŽ©•ª,đ•ª□í,â□í□œ,μ,æ,π,Æ,·,é,à,ì,©,çŽ©ŒÈ-h  
%°q,·,éfEfBf<fX,Ā,·□B

**fgfC,ì-Ø"n**

-ð,É—š,¿,»,,¼,Á,½,è (fQ[f€,ì,æ,α,É) -Ê"»,»,α,É©,!,é,ªAfrf"fsf...[f^,ì"®i't,É  
%B,è,Åftj@fCf<,ð¹,μ,½,èÁ<Z,μ,½,è,·,évfjOf%of€,Å,·BfgfC,ì-Ø"n,ífEfBf<fX,Å,í, ,è,Ü,¹,ñ  
B

**fEfBf<fX'è<`ftf@fCf<**

fEfBf<fX'è<`ftf@fCf<,É,ÍfEfBf<fX,É,Â,ç,Ä,ìî•ñ,<sup>a</sup>ü,Á,Ä,ç,Ü,·B,±,ìî•ñ,ðŽg,Á,Ä Norton AntiVirus  
,É,Ç,ÍVf}}f“febfN»•i,ÍfEfBf<fXŠ´õ,ðCEŸo,âC•œ,μ,Ü,·Bç,ì†,Á,íVŽí,ÍfEfBf<fX,<sup>a</sup>-^“ú,ì,æ,κ  
,É”CE©,<sup>3</sup>,ê´±,¯,Ä,ç,é,ì,ÄAí,ÉfRf“fsf...[f^ã,ÍfEfBf<fX'è<`ftf@fCf<,ðÄV,É•Ü,Á,±,Æ,<sup>a</sup>d—  
v,Ä,·B

fVf}}f“febfNŽĐ,íV,μ,çfEfBf<fX'è<`ftf@fCf<,ð'èŠú“l,É—p^Ó,μ,Ü,·B—  
p^Ó,<sup>3</sup>,ê,½V,μ,çfEfBf<fX'è<` ,ðft[fU[,í LiveUpdate <Zp,ðŽg,Á,ÄfVf}}f“febfNŽĐ,ì Web  
ftfCfg,Ü,½,í•Ä' Symantec ŽĐ,ì BBS ,©,çŽ©“®“l,Éf\_fEf“f[fh,Á,«,Ü,·B

## fEfBf·fX


^«^Ó,ì, ,éfvf[]fOf%of},É,æ,Á,Ä[],©,ê,½Ž©CEÈ•i[]»fvf[]fOf%of€[]B[]ufRf“fsf...  
[]f^fEfBf·fX[]v,Æ,à,ç,ç,Ü,·[]BfEfBf·fX,Ít[]fU[],<sup>a</sup><C,Á,©,É,ç,α,ζ,É<-%oÁ,É,frf“fsf...[]f^,ì“®[]i,ð  
%oü•İ,μ,Ü,·[]BfEfBf·fX,ÍŽ©CEÈ,ð'¼,İfvf[]fOf%of€ftf@fCf<,É•t'...,·,é,æ,α,ÉYCEv,<sup>3</sup>ê[]A•t'...  
,μ,½fvf[]fOf%of€,İŽÄ[]sŽž,ÉŠ^“®,μ,Ü,·[]BŠ^“®+ÉfEfBf·fX,İffBfXfN[]ã,ì'¼,İfvf[]fOf%of€  
,ÉŽ©CEÈ,ðfRfs[][,μ,Ä'[]B,μ,Ü,·[]B






## fhfbfLj“fO

Norton System Doctor ,đfhfbfLj“fO, .é,Æ Windows fffXfNfgfbfv, ìä%°¶%E, ì[, ì, ç, , ê, ©, É  
(Windows , ìf^fXfNfo[ , ì, æ, x, É) fo[ , Æ, μ, Ä•Ž, ³, ê, Ü, ·BfhfbfLj“fN, μ, ½ Norton System Doctor  
, đfhf%fbfO, .é, ÆffXfNfgfbfv, ì, Ç, ì[, É, Å, à^Ú“® , Å, «, Ü, ·B

 fffXfNfgfbfv, ðL, Žg, x, ½, ß, ÉAfhfbfLj“fOŽž, É, Í Norton System Doctor , đŽ©“®”ñ•\  
Ž, É, Å, «, Ü, ·B

Ž©“®”ň•\Ž!

Ž©“®”ň•\Ž!,ífhfbfLf“fO.É Norton System Doctor ,đ×,čü,Ék→,μ,ÄffXfNfgfbfv,đó,¯,é<@”\ ,Ä,·B,±,ìü,Éf}fEfXf|fCf“f^,đ‡,í,¹,é,ÆANorton System Doctor ,íŠg’â,μ,Ä,·,×,Ä,ífZf“fT[ ,đ•\ Ž!,μ,Ü,·Bfj[|f<,đ—£,·,ÆfEfBf“fhfE,íü,É-β,è,Ü,·B

 Norton System Doctor ,Æ Windows ,íf^fXfNfo[ ,ì—¼•û,đ%œ-Ê,ì“¯,¶’[ ,ÉŽ©“®“l,É %oB,·,±,Æ,í,Ä,«,Ü,¹,ňB

## ffXf^f€Y'è

Norton System Doctor ffXf^f€Y'è, í "Á'è, ìfzf"FT[. ìfCfCfAfefg (Norton System Doctor  
fEfbf"fhfE, É•\Ži, ., éfzf"FT[. ìŽí—p, Æ[ñ[~) , ðŠi"[. μ, Û, .□B2  
, Á^É□ă, í'í□Ù, ðŠĂŽ<, ., é, ½, ß, É•i□", ìffXf^f€Y'è, ð□i□→, μ, Ā•Ů'¶, Ā, «, Ů, .□Bft□[fU□[. í, †, Ā, Ā, à  
Norton System Doctor , ð^Ů, É, éY'è, É□Ø, è'Ů, , Ā, «, Ů, .□B

– Norton System Doctor , ìffXf^f€Y'è, í Norton System Doctor , ì•  
[Ži•ŮŽ@, Æ, í^Ů, É, è, Ů, .□B](#)

•\Ž!•ûŽ®

Norton System Doctor ,ì\

Ž!•ûŽ® ,ìfZf“fT[] ,ìfTfCfY[]A[]F[]AftfHf“fg[]A”wCEi,ÉŽg,í,ê,éfrfbfgf}fbfv,ìfZfbfg,ðŠi”[.,μ,Û,·[]B•\

Ž!•ûŽ® ,ì,ç,,Á,Á,à[]i[]¬,Á,«[]A,ç,Á,Á,à[]Ø,è’Ö,!,Á,«,Û,·[]B

– Norton System Doctor ,ì\Ž!•ûŽ®,í Norton System Doctor

,ìffXf^f€[]Ý’è,Æ,í^Û,È,è,Û,·[]B

**fXf} [fgfhf%ofCfu (SMART)**

SMART ,đftf| [fg, .éfhf%ofCfu BSMART ,í Self-Monitoring, Analysis and Reporting Technology ,ì—<sup>a</sup>, Å VCE ^ ,ìfn [fhfffBfXfNfhf%ofCfu, É'g, Yž, Ü, ê, Å, ç, é<Z p, Å, · BfXf} [fgfhf %ofCfu, íŽ © CEÉ, í“ @ ì, đŠ ĀŽ<, μ, Āfhf%ofCfu, ìfn [fhfEjFfA, ìCE ì á, <sup>a</sup><N, «, é'O, É, Ù, Æ, ñ, Ç, ð—\<sup>a</sup>, μ, Ü, ·; Norton System Doctor ,ìfffBfXfNfXf} [fgfZf“ft [í“ --É, ìfffBfXfN, ì-â'è, É, Å, ç , ÅCEx [μ, μ ACE ì á, <sup>a</sup><N, «, Āff [f^, <sup>a</sup> ĀŽ, ·, ·, é'O, Éft [fU [ , <sup>a</sup>ftf@fCf<, ìfofbfNfAfbfv, ð ì ñ, μ, ½fhf %ofCfu, đCEđŠ·, Ü, ½, ì C—, Å, «, é, æ, x, É, μ, Ü, ·; i

Ž©ÆÈŠĂŽ<,Æ•ň□□,ì<Z□p

## fCf<fhfJ[fh

•ŕŽš—ň't,ì" C^Ó,ì•ŕŽš,đ•\,•½,ß,ÉŽg,í,ê,é"Á•Ê,È•ŕŽš□B^ê"É,É□A<^â•,, (?)  
,ìfCf<fhfJ[fh,í'P^ê,ì•ŕŽš□AfAfXf^fŠfXfN (\*) ,ìfCf<fhfJ[fh,í" C^Ó,ì•ŕŽš□",ì•ŕŽš—ň,đ•\  
,μ,Û,•□B,½,Æ,ì,î□Aftf@fCf<-¼,đŽw'è,•,é,Æ,«,É myfile.n?? ,Æ"ü—í,•,é,Æ  
myfile.n01□Amyfile.new ,È,Ç,É^ê'v,μ□Amyfile.\* ,Æ"ü—í,•,é,Æ myfile. ,É" C^Ó,ìŠg'£Žq,<sup>a</sup>•t,-  
¼'O,É^ê'v,μ,Û,•□B

## fjf...[fŠfXfefBfbfN

fRf“fsf...[f^fvf[]fOf%of€É,Â,ç,Ä,±,ì—pCEê,ðŽg,ꝛ,Æ,«É,ÍA[]uCEoCE±,©,ç“±,ç,½<K'¥[]v,ð“K—  
p,μ,Ä•jŽG,È-â'è,ð[]v'¬,É%øð,fAf<fSfŠfyf€,ð^Ó-ì,μ,Û,·[]Bfjf...[fŠfXfefBfbfN,ª[]í,É[]Å“K,É  
%øðCE^[]ô,ð[]¶,p,Æ,ÍCEÀ,è,Û,<sup>1</sup>ñ,ª[]A[]uftf@fW[][~—[]v,<sup>a</sup>—v<[],<sup>3</sup>è,é-â'è,ì%øð-¾[]A,Â,Û,è-  
â'è,É'í,·,é%øñ“š,<sup>a-¾</sup>Šm,É'è<^,<sup>3</sup>è,É,ç[]ê-È,Å,æ,Žg,í,è,Û,·[]B



f}fNfEfBf<fX

fRf“fsf...[f^fEfBf<fX,ì^èŽíBf[]fvf[]•¶[]‘[]Afef“fvf[]f[]g[]A•\[]v[]Ž[]Z[]f[][]fNfV[]f[]g,È,Çf}fNf[]<@”\ ,â, ,éff[]f^ftf@fCf<,ÉŠ´[]ö,µ,Û,·[]B





