

## C machine

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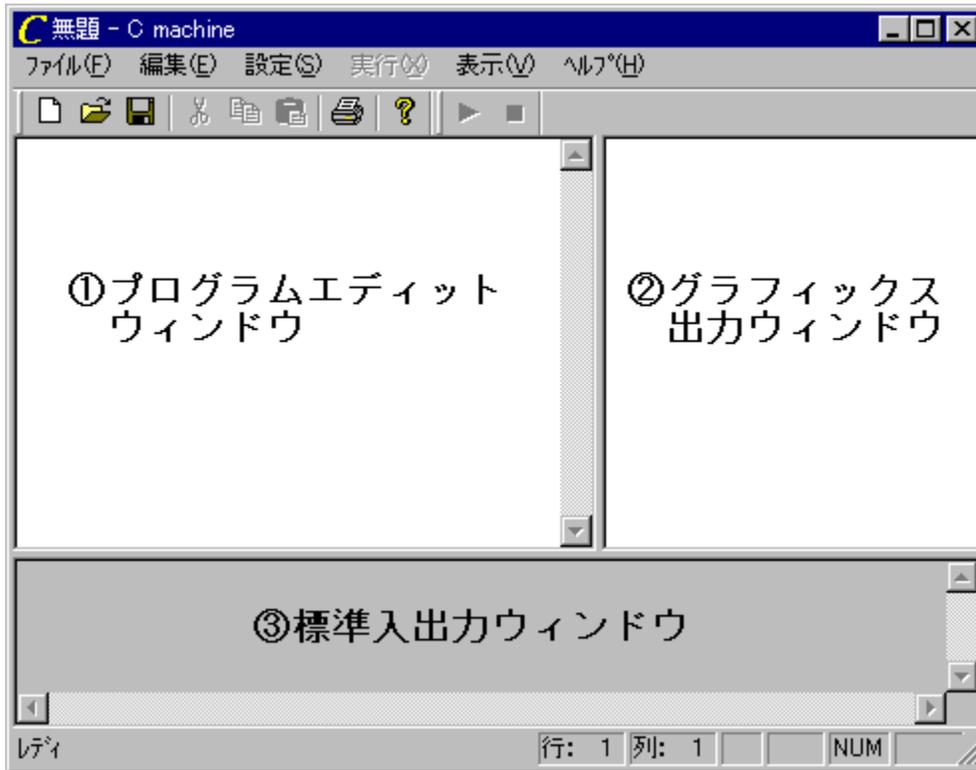
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□@CE»fo□[fWf+“f”,Á,í□A□\‘ç‘ì,ìf□f“fo,ÉfrfbfgftfB□[f<fhžw’è,í,Á,«,Ü,¹,ñ□B  
□@“à—e•s-¾,ì□\‘ç‘ì,ì’è<` ,Á,«,Ü,¹,ñ□B

### <L%~fNf%ofXžw’èžq,É,Â,ç,Ä

□@register□Avolatile,ížw’è,Á,«,Ü,·,ª□A^Ó-i,đž□,¿,Ü,¹,ñ□B-³Ž<,μ,Ü,·□B

### šÖ□”,É,Â,ç,Ä

□@šÖ□”CEÄ,Ñ□o,μ,ì‘O,É□AšÖ□”’è<`,©šÖ□”fvf□fgf^fCfv□éCE¾,ª,É,,Ä,í,ç,˘,Ü,¹,ñ□B  
□@šÖ□”’è<`,ì•ª—£CE`Ž@□i<CE`Ž@□j,É,íí%ž,μ,Ä,ç,Ü,¹,ñ□B

### □#□~CE^,É,Â,ç,Ä

□@□#□~CE^,ìftf□[fg,μ,Ä,ç,Ü,¹,ñ□B

### •W□€f%ofCfuf%ofššÖ□”

,·,x,Á,ì ANSI C ,ì•W□€f%ofCfuf%ofššÖ□”,ìftf□[fg,μ,Ä,ç,Ü,¹,ñ□Bžg—  
p,Á,«,éšÖ□”,í□A•W□€f%ofCfuf%ofššÖ□”,Ášm”F,μ,Ä,,¾,¾,ç□B

## • Windows Standard Library

Windows Standard Library

Windows Standard Library

```
int putchar(int);
void puts(char *);
int printf(const char *, ...);
int getchar(void);
char *gets(char *);
int scanf(const char *, ...);
FILE *fopen(char *, char *);
int fclose(FILE *);
size_t fread(void *, size_t, size_t, FILE *);
size_t fwrite(void *, size_t, size_t, FILE *);
int fputs(char *, FILE *);
int fputc(int, FILE *);
int fprintf(FILE *, const char *, ...);
char *fgets(char *, int, FILE *);
int fgetc(FILE *);
int fscanf(FILE *, const char *, ...);
char *strcat(char *, char *);
char *strncat(char *, char *, size_t);
char *strcpy(char *, char *);
char *strncpy(char *, char *, size_t);
int strlen(char *);
char *strchr(char *, int);
char *strstr(char *, char *);
char *strtok(char *, char *);
int strcmp(char *, char *);
int strncmp(char *, char *, size_t);
int memcmp(void *, void *, size_t);
void *memcpy(void *, void *, size_t);
void *memset(void *, int, size_t);
int sprintf(char *, const char *, ...);
int sscanf(char *, const char *, ...);
void *malloc(unsigned int);
void free(void *);
time_t time(time_t *);
void srand(unsigned int);
int rand(void);
int abs(int);
int atoi(char *);
double atof(char *);
void qsort(void *, size_t, size_t, int (*)(void *, void *));
void exit(int);
int isdigit(int);
int islower(int);
```

```
int isupper(int);
int isprint(int);
int isalpha(int);
int isalnum(int);
int isgraph(int);
int ispunct(int);
int isxdigit(int);
int isspace(int);
int tolower(int);
int toupper(int);
```

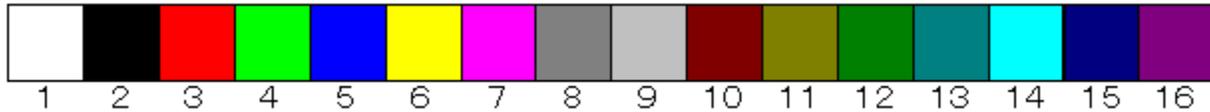
```
␣@,Ü,½␣A^È%º,ì␣"ŠwĀEnŠÖ␣",É,à'î%ž,μ,Ä,ϕ,Û,·␣B
double sin(double);
double cos(double);
double tan(double);
double log(double);
double log10(double);
double sqrt(double);
double exp(double);
double fabs(double);
double pow(double, double);
```

## fOf%oftfBfbfNfX'S"Ê

-{^—n,Å,íAfOf%oftfBfbfNfXo—í,ª,Å,«,Ü,·BfOf  
%oftfBfbfNfXŠÖ"isetwindowŠÖ"AsetpixelŠÖ"AsetlineŠÖ"j,ðĀ,Ño,·,±  
,Æ,É,æ,èAfOf%oftfBfbfNfXo—í,ðs,ç,Û,·B,±  
,ê,ç,ìŠÖ",ðĀ,Ño,·,½,ß,É,íAgraphic.hfwfbf\_[ftf@fCf<,ðfCf"fNf<[fh,μ,Ä,,¾,¾,çB

## F,ÆF"Ô†

@fOf%oftfBfbfNfXŠÖ",É," ,éF"Ô†,ÆF,ì'ºž,í'È%º,ì'Ê,è,Å,·B



## setwindowŠÖ

### fvf^fcfv

@void setwindow(int width, int height);

### ^ø

@width

@@fOf%oftfBfbfNfXfEfBf“fhfE“à,ìX•ûCEü,ìfsfNfZf<“,ðŽw’è,μ,Û,·B

@height

@@fOf%oftfBfbfNfXfEfBf“fhfE“à,ìY•ûCEü,ìfsfNfZf<“,ðŽw’è,μ,Û,·B

### -ß,è'l

@,È,μ

### à-¾

@fOf%oftfBfbfNfXfEfBf“fhfE,ìÀ•W,ìÝ’è,ð,μ,Û,·B-{ŠÖ“,ðCEÄ,Ô,ÆfOf

%oftfBfbfNfXfEfBf“fhfE“à,ì^’t,ªÀ•W(0, 0),É,È,èA

%oE,ª+X•ûCEüAã,ª+Y•ûCEü,É,È,è,Û,·B-{ŠÖ“,ðCEÄ,Ño,³,È,çêê‡,íAÀ•W(0, 0)  
,ÍOf%oftfBfbfNfX%oæ-Ê,ì¶ã’l,Å,·B

## setpixelŠÖ”

### fvf fgf^fCfv

void setpixel(int x, int y, short color);

### ^ø”

@x

@@•`%œ,·,é“\_ìX'l,đŽw'è,μ,Û,·B

@y

@@•`%œ,·,é“\_ìY'l,đŽw'è,μ,Û,·B

@color

@@•`%œ,·,é“\_ìF,đŽw'è,μ,Û,·B

### -f,è'l

@,È,μ

### à-¾

@Žw'è,<sup>3</sup>,è,<sup>1/2</sup>Ê'u,ÉŽw'è,<sup>3</sup>,è,<sup>1/2</sup>F,ÅA“\_i,PfhfbfgfsfNfZf<j,đ•`%œ,μ,Û,·B

## setlineŠÖ”

### fvfgf^fcfv

void setline(int sx, int sy, int ex, int ey, int width, short color);

#### ^ø”

sx

•`%œ,·,é'¼ü,ìžn“\_ìX'l,đžw'è,μ,Û,·B

sy

•`%œ,·,é'¼ü,ìžn“\_ìY'l,đžw'è,μ,Û,·B

ex

•`%œ,·,é'¼ü,ìl“\_ìX'l,đžw'è,μ,Û,·B

ey

•`%œ,·,é'¼ü,ìl“\_ìY'l,đžw'è,μ,Û,·B

width

•`%œ,·,é'¼ü,ì•,ì'â,«,<sup>3</sup>,đžw'è,μ,Û,·B

color

□@□@•`%œ,·,é“\_ì□F,đžw'è,μ,Û,·B

### -ß,è'l

,È,μ

### □à-¾

(sx, sy), ©, ç(ex, ey), Û, Å□Awidth, ì•□□Acolor, ì□F, Å'¼ü, đ^ø, «, Û, ·B

