

C3. Index of Programs and Dependencies

The following table lists, in alphabetical order, all the routines in Volume 2 of *Numerical Recipes*. When a routine requires subsidiary routines, either from this book or else user-supplied, the full dependency tree is shown: A routine calls directly all routines to which it is connected by a solid line in the column immediately to its right; it calls indirectly the connected routines in all columns to its right. Typographical conventions: Routines from this book are in typewriter font (e.g., `eulsum`, `gamm1n`). The smaller, slanted font is used for the second and subsequent occurrences of a routine in a single dependency tree. (When you are getting routines from the *Numerical Recipes* machine-readable media or hypertext archives, you need specify names only in the larger, upright font.) User-supplied routines are indicated by the use of text font and square brackets, e.g., `[funcv]`. Consult the text for individual specifications of these routines. The right-hand side of the table lists chapter and page numbers for each program.

<code>airy</code>	┌ <code>bessik</code> ─	B6 (p. 1121)
	└ <code>bessjy</code> ─ <code>beschb</code> ─ <code>chebev</code>	
<code>amebsa</code>	┌ <code>ran1</code> ─ <code>ran_state</code>	B10 (p. 1222)
	└ <code>[func]</code>	
<code>amoeba</code>	─ <code>[func]</code>	B10 (p. 1208)
<code>anneal</code>	─ <code>ran1</code> ─ <code>ran_state</code>	B10 (p. 1219)
<code>arcmak</code>	. . . . .	B20 (p. 1349)
<code>arcode</code>	─ <code>arcmak</code>	B20 (p. 1350)
<code>avevar</code>	. . . . .	B14 (p. 1270)
<code>badluk</code>	┌ <code>julday</code>	B1 (p. 1011)
	└ <code>flmoon</code>	
<code>balanc</code>	. . . . .	B11 (p. 1230)
<code>banbks</code>	. . . . .	B2 (p. 1021)
<code>bandec</code>	. . . . .	B2 (p. 1020)
<code>banmul</code>	. . . . .	B2 (p. 1019)
<code>bcucof</code>	. . . . .	B3 (p. 1049)
<code>bcuint</code>	─ <code>bcucof</code>	B3 (p. 1050)
<code>beschb</code>	─ <code>chebev</code>	B6 (p. 1118)

bessi — bessj0	B6 (p. 1114)
bessi0	B6 (p. 1109)
bessi1	B6 (p. 1111)
bessik — beschb — chebev	B6 (p. 1118)
bessj — bessj0	B6 (p. 1106)
└─ bessj1	
bessj0	B6 (p. 1101)
bessj1	B6 (p. 1103)
bessjy — beschb — chebev	B6 (p. 1115)
bessk — bessk0 — bessj0	B6 (p. 1113)
└─ bessk1 — bessj1	
bessk0 — bessj0	B6 (p. 1110)
bessk1 — bessj1	B6 (p. 1112)
bessy — bessy1 — bessj1	B6 (p. 1105)
└─ bessy0 — bessj0	
bessy0 — bessj0	B6 (p. 1102)
bessy1 — bessj1	B6 (p. 1104)
beta — gammln	B6 (p. 1089)
betacf	B6 (p. 1099)
betai — gammln	B6 (p. 1098)
└─ betacf	
bico — factln — gammln	B6 (p. 1087)
bnldev — ran1 — ran_state	B7 (p. 1155)
└─ gammln	
brent — [func]	B10 (p. 1204)
broydn — fmin	B9 (p. 1199)
└─ fdjac — [funcv]	
└─ qrdcmp	
└─ grupdt — rotate	
└─ pythag	
└─ rsolv	
└─ lnsrch — fmin — [funcv]	
bsstep — mmid — [derivs]	B16 (p. 1303)
└─ pzextr	
caldat	B1 (p. 1013)
chder	B5 (p. 1077)
chebev	B5 (p. 1076)
chebft — [func]	B5 (p. 1076)
chebpc	B5 (p. 1078)
chint	B5 (p. 1078)
chixy	B15 (p. 1287)

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choldc		B2 (p. 1038)
chols1		B2 (p. 1039)
chsone	— gammq — $\left\{ \begin{array}{l} \text{gser} \\ \text{gcf} \end{array} \right\} \text{gammln}$	B14 (p. 1272)
chstwo	— gammq — $\left\{ \begin{array}{l} \text{gser} \\ \text{gcf} \end{array} \right\} \text{gammln}$	B14 (p. 1272)
cisi		B6 (p. 1125)
cntab1	— gammq — $\left\{ \begin{array}{l} \text{gser} \\ \text{gcf} \end{array} \right\} \text{gammln}$	B14 (p. 1275)
cntab2		B14 (p. 1275)
convlv	— realft — four1 — fourrow	B13 (p. 1253)
correl	— realft — four1 — fourrow	B13 (p. 1254)
cosft1	— realft — four1 — fourrow	B12 (p. 1245)
cosft2	— realft — four1 — fourrow	B12 (p. 1246)
covsrt		B15 (p. 1289)
cyclic	— tridag	B2 (p. 1030)
daub4		B13 (p. 1264)
dawson		B6 (p. 1127)
dbrent	$\left\{ \begin{array}{l} \text{[func]} \\ \text{[dfunc]} \end{array} \right.$	B10 (p. 1205)
ddpoly		B5 (p. 1071)
decchk		B20 (p. 1345)
dfpmin	$\left\{ \begin{array}{l} \text{[func]} \\ \text{[dfunc]} \\ \text{lnsrch — [func]} \end{array} \right.$	B10 (p. 1215)
dfridr	— [func]	B5 (p. 1075)
dftcor		B13 (p. 1261)
dftint	$\left\{ \begin{array}{l} \text{[func]} \\ \text{realft — four1 — fourrow} \\ \text{polint} \\ \text{dftcor} \end{array} \right.$	B13 (p. 1263)
difeq		B17 (p. 1320)
dlinmin	$\left\{ \begin{array}{l} \text{mnbrak} \\ \text{dbrent} \left\{ \begin{array}{l} \text{[func]} \\ \text{[dfunc]} \end{array} \right. \end{array} \right.$	B10 (p. 1212)
eclass		B8 (p. 1180)
eclazz	— [equiv]	B8 (p. 1180)
ei		B6 (p. 1097)
eigsrt		B11 (p. 1227)
elle	$\left\{ \begin{array}{l} \text{rf} \\ \text{rd} \end{array} \right.$	B6 (p. 1136)

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ellf — rf	B6 (p. 1135)
ellpi — rf	B6 (p. 1136)
└─ rj — rc	
└─ rf	
elmhes	B11 (p. 1231)
erf — gammp — gser — gammln	B6 (p. 1094)
└─ gcf	
erfc — gammp — gser	B6 (p. 1094)
└─ gcf — gammln	
└─ gammq — gser — gammln	
└─ gcf	
erfcc	B6 (p. 1095)
eulsum	B5 (p. 1070)
evlmem	B13 (p. 1258)
expdev — ran1 — ran_state	B7 (p. 1151)
expint	B6 (p. 1096)
factln — gammln	B6 (p. 1088)
factrl — gammln	B6 (p. 1086)
fasper — avevar	B13 (p. 1259)
└─ realft — four1 — fourrow	
fdjac — [funcv]	B9 (p. 1197)
fgauss	B15 (p. 1294)
fit — gammq — gser — gammln	B15 (p. 1285)
└─ gcf	
fitexy — avevar	B15 (p. 1286)
└─ fit — gammq — gser — gammln	
└─ gcf	
└─ chixy	
└─ mnbrak	
└─ brent	
└─ gammq — gser — gammln	
└─ gcf	
└─ zbrent — chixy	
fixrts — roots — laguer	B13 (p. 1257)
└─ indexx	
fleg	B15 (p. 1291)
flmoon	B1 (p. 1010)
fmin — [funcv]	B9 (p. 1198)
four1 — fourrow	B12 (p. 1239)
four1_alt — fourcol	B12 (p. 1240)
four1_gather	B12 (p. 1250)
four2 — fourrow	B12 (p. 1241)

four2_alt — fourcol	B12 (p. 1242)
four3 — fourrow_3d	B12 (p. 1246)
four3_alt — fourcol_3d	B12 (p. 1247)
fourcol	B12 (p. 1237)
fourcol_3d	B12 (p. 1238)
fourn_gather	B12 (p. 1251)
fourrow	B12 (p. 1235)
fourrow_3d	B12 (p. 1236)
fpoly	B15 (p. 1291)
fred2 — gauleg	B18 (p. 1325)
— [ak]	
— [g]	
— ludcmp	
— lubksb	
fredex — quadmx — wwgths — kermom	B18 (p. 1331)
— ludcmp	
— lubksb	
fredin — [ak]	B18 (p. 1326)
— [g]	
frenel	B6 (p. 1123)
frprmn — [func]	B10 (p. 1214)
— [dfunc]	
— linmin — mnbrak — brent — [func]	
ftest — avevar	B14 (p. 1271)
— betai — gammln — betacf	
gamdev — ran1 — ran_state	B7 (p. 1153)
gammln	B6 (p. 1085)
gammp — gser — gammln	B6 (p. 1089)
— gcf — gammln	
gammq — gser — gammln	B6 (p. 1090)
— gcf — gammln	
gasdev — ran1 — ran_state	B7 (p. 1152)
gaucof — tqli — pythag	B4 (p. 1064)
— eigsrt	
gauher	B4 (p. 1062)
gaujac — gammln	B4 (p. 1063)
gaulag — gammln	B4 (p. 1060)
gauleg	B4 (p. 1059)
gaussj	B2 (p. 1014)
gcf — gammln	B6 (p. 1092)

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golden — [func]		B10 (p. 1202)
gser — gammln		B6 (p. 1090)
hqr		B11 (p. 1232)
hufdec — hufmak		B20 (p. 1349)
hufenc — hufmak		B20 (p. 1348)
hufmak		B20 (p. 1346)
hunt		B3 (p. 1046)
hypdrv		B6 (p. 1139)
hypgeo	hypser	B6 (p. 1138)
	odeint	
	bsstep	mmid
		pzextr
	hypdrv	
hypser		B6 (p. 1139)
icrc		B20 (p. 1344)
igray		B20 (p. 1344)
index_bypack		B8 (p. 1176)
indexx		B8 (p. 1173)
interp		B19 (p. 1337)
irbit1		B7 (p. 1159)
irbit2		B7 (p. 1160)
jacobi		B11 (p. 1225)
jacobn		B16 (p. 1309)
julday		B1 (p. 1011)
kendl1 — erfcc		B14 (p. 1279)
kendl2 — erfcc		B14 (p. 1279)
kermom		B18 (p. 1329)
ks2d1s	quadct	B14 (p. 1281)
	quadvl	
	pearsn — betai	gammln
		betacf
	probks	
ks2d2s	quadct	B14 (p. 1283)
	pearsn — betai	gammln
		betacf
	probks	
ksone	sort	B14 (p. 1273)
	[func]	
	probks	
kstwo	sort2	B14 (p. 1273)
	probks	
laguer		B9 (p. 1191)

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lfit	└─ [funcs]	B15 (p. 1288)
	└─ gaussj		
	└─ covsrt		
linbcg	└─ atimes	B2 (p. 1034)
	└─ snrm		
	└─ asolve		
linmin	└─ mnbrak	B10 (p. 1211)
	└─ brent	└─ [func]	
lnsrch	└─ [func]	. . . . .	B9 (p. 1195)
locate		. . . . .	B3 (p. 1045)
lop		. . . . .	B19 (p. 1342)
lubksb		. . . . .	B2 (p. 1017)
ludcmp		. . . . .	B2 (p. 1016)
machar		. . . . .	B20 (p. 1343)
medfit	└─ select	. . . . .	B15 (p. 1294)
memcof		. . . . .	B13 (p. 1256)
mgfas	└─ rstrct	. . . . .	B19 (p. 1339)
	└─ slvsm2		
	└─ interp		
	└─ relax2		
	└─ lop		
mglin	└─ rstrct	. . . . .	B19 (p. 1334)
	└─ slvsml		
	└─ interp		
	└─ relax		
	└─ resid		
midexp	└─ [funk]	. . . . .	B4 (p. 1058)
midinf	└─ [funk]	. . . . .	B4 (p. 1056)
midpnt	└─ [func]	. . . . .	B4 (p. 1054)
midsql	└─ [funk]	. . . . .	B4 (p. 1057)
midsqu	└─ [funk]	. . . . .	B4 (p. 1057)
miser	└─ ran1	└─ ran_state	. . . . .
	└─ [func]		B7 (p. 1164)
mmid	└─ [derivs]	. . . . .	B16 (p. 1302)
mnbrak	└─ [func]	. . . . .	B10 (p. 1201)
mnewt	└─ [usrfun]	B9 (p. 1194)
	└─ ludcmp		
	└─ lubksb		
moment		B14 (p. 1269)
mp2dfr	└─ mpops	B20 (p. 1357)

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mpdiv	<ul style="list-style-type: none"> mpinv <ul style="list-style-type: none"> mpmul — realft — four1 — fourrow mpops mpmul — realft — four1 — fourrow mpops 	B20 (p. 1356)
mpinv	<ul style="list-style-type: none"> mpmul — realft — four1 — fourrow mpops 	B20 (p. 1355)
mpmul	— realft — four1 — fourrow	B20 (p. 1354)
mpops	. . . . .	B20 (p. 1352)
mppi	<ul style="list-style-type: none"> mpsqrtd <ul style="list-style-type: none"> mpmul — realft — four1 — fourrow mpops mpops mpmul — realft — four1 — fourrow mpinv — mpmul — realft — four1 — fourrow mp2dfr — mpops 	B20 (p. 1357)
mprove	— lubksb	B2 (p. 1022)
mpsqrtd	<ul style="list-style-type: none"> mpmul — realft — four1 — fourrow mpops 	B20 (p. 1356)
mrqmin	<ul style="list-style-type: none"> gaussj covsrt [funcs] 	B15 (p. 1292)
newt	<ul style="list-style-type: none"> fmin <ul style="list-style-type: none"> fdjac — [funcv] ludcmp lubksb lnsrch — fmin — [funcv] 	B9 (p. 1196)
odeint	<ul style="list-style-type: none"> [derivs] rkqs <ul style="list-style-type: none"> [derivs] rkck — [derivs] 	B16 (p. 1300)
orthog	. . . . .	B4 (p. 1064)
pade	<ul style="list-style-type: none"> ludcmp lubksb mprove — lubksb 	B5 (p. 1080)
pccheb	. . . . .	B5 (p. 1080)
pcshft	. . . . .	B5 (p. 1079)
pearsn	<ul style="list-style-type: none"> betai <ul style="list-style-type: none"> gammln betacf 	B14 (p. 1276)
period	— avevar	B13 (p. 1258)
plgndr	. . . . .	B6 (p. 1122)
poidev	<ul style="list-style-type: none"> ran1 — ran_state gammln 	B7 (p. 1154)
polcoe	B3 (p. 1047)
polcof	— polint	B3 (p. 1048)
poldiv	B5 (p. 1072)

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polin2 — polint	B3 (p. 1049)
polint	B3 (p. 1043)
powell — [func]	B10 (p. 1210)
└─ linmin — mnbrak — brent — [func]	
predic	B13 (p. 1257)
probks	B14 (p. 1274)
psdes	B7 (p. 1156)
pwt — pwtset	B13 (p. 1266)
pwtset	B13 (p. 1265)
pythag	B2 (p. 1029)
pzextr	B16 (p. 1305)
qrncmp	B2 (p. 1039)
qromb — trapzd — [func]	B4 (p. 1054)
└─ polint	
qromo — midpnt — [func]	B4 (p. 1055)
└─ polint	
qroot — poldiv	B9 (p. 1193)
qrsolv — rsolv	B2 (p. 1040)
qrupdt — rotate	B2 (p. 1041)
└─ pythag	
qsimp — trapzd — [func]	B4 (p. 1053)
qtrap — trapzd — [func]	B4 (p. 1053)
quad3d — polint	B4 (p. 1065)
└─ [func]	
└─ [y1]	
└─ [y2]	
└─ [z1]	
└─ [z2]	
quadct	B14 (p. 1282)
quadmx — wwgths — kermom	B18 (p. 1330)
quadv1	B14 (p. 1282)
ran	B7 (p. 1142)
ran0 — ran_state	B7 (p. 1148)
ran1 — ran_state	B7 (p. 1149)
ran2 — ran_state	B7 (p. 1150)
ran3 — ran_state	B7 (p. 1158)
ran_state	B7 (p. 1144)
rank	B8 (p. 1176)
ratint	B3 (p. 1043)

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ratlsq	└─ [func]	B5 (p. 1081)
	└─ svdcmp ── pythag	
	└─ svbksb	
	└─ ratval	
ratval	B5 (p. 1072)
rc	B6 (p. 1134)
rd	. . . . .	B6 (p. 1130)
realft	─ four1 ── fourrow	B12 (p. 1243)
recur1	. . . . .	B5 (p. 1073)
recur2	. . . . .	B5 (p. 1074)
relax	. . . . .	B19 (p. 1338)
relax2	. . . . .	B19 (p. 1341)
resid	. . . . .	B19 (p. 1338)
rf	. . . . .	B6 (p. 1128)
rj	└─ rc	B6 (p. 1131)
	└─ rf	
rk4	─ [derivs]	B16 (p. 1297)
rkck	─ [derivs]	B16 (p. 1299)
rkdumb	└─ [derivs]	B16 (p. 1297)
	└─ rk4 ── [derivs]	
rkqs	─ rkck ── [derivs]	B16 (p. 1298)
rlft2	─ four2 ── fourrow	B12 (p. 1248)
rlft3	─ four3 ── fourrow_3d	B12 (p. 1249)
rotate	. . . . .	B2 (p. 1041)
rsolv	. . . . .	B2 (p. 1040)
rstrct	. . . . .	B19 (p. 1337)
rtbis	─ [func]	B9 (p. 1184)
rtflsp	─ [func]	B9 (p. 1185)
rtnewt	─ [funcd]	B9 (p. 1189)
rtsafe	─ [funcd]	B9 (p. 1190)
rtsec	─ [func]	B9 (p. 1186)
rzextr	. . . . .	B16 (p. 1306)
savgol	└─ ludcmp	B14 (p. 1283)
	└─ lubksb	
scrsho	─ [func]	B9 (p. 1182)
select	. . . . .	B8 (p. 1177)
select_bypack	B8 (p. 1178)
select_heap	─ sort	B8 (p. 1179)
select_inplace	─ select	B8 (p. 1178)

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sfroid	└─ plgndr	B17 (p. 1319)
	└─ solvde ── difeq	
shoot	└─ [load]	B17 (p. 1314)
	└─ odeint ── [derivs]	
	└─ [score]	
	└─ rkqs ── rkck ── [derivs]	
shootf	└─ [load1]	B17 (p. 1315)
	└─ odeint ── [derivs]	
	└─ [score]	
	└─ [load2]	
simplx	B10 (p. 1216)
simpr	└─ ludcmp	B16 (p. 1310)
	└─ lubksb	
	└─ [derivs]	
sifft	─ realft ── four1 ── fourrow	B12 (p. 1245)
slvsm2	B19 (p. 1342)
slvsm1	B19 (p. 1337)
sncndn	B6 (p. 1137)
snrm	B2 (p. 1036)
sobseq	B7 (p. 1160)
solvde	─ difeq	B17 (p. 1316)
sor	B19 (p. 1332)
sort	B8 (p. 1169)
sort2	─ indexx	B8 (p. 1170)
sort3	─ indexx	B8 (p. 1175)
sort_bypack	B8 (p. 1171)
sort_byreshape	B8 (p. 1168)
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