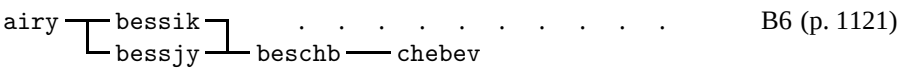
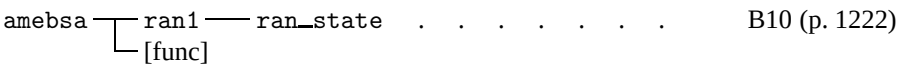
C3. Index of Programs and Dependencies

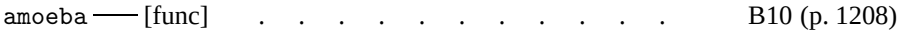
The following table lists, in alphabetical order, all the routines in Volume 2 of *Numerical Recipes*. When a routine requires subsidiary routines, either from this book or else user-supplied, the full dependency tree is shown: A routine calls directly all routines to which it is connected by a solid 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`, *`gammln`*). 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.



B6 (p. 1121)



B10 (p. 1222)



B10 (p. 1208)

B10 (p. 1219)

`arcmak` . . . . . B20 (p. 1349)

B20 (p. 1350)

`avevar` . . . . . B14 (p. 1270)

B1 (p. 1011)

`balanc` . . . . . B11 (p. 1230)

`banbks` . . . . . B2 (p. 1021)

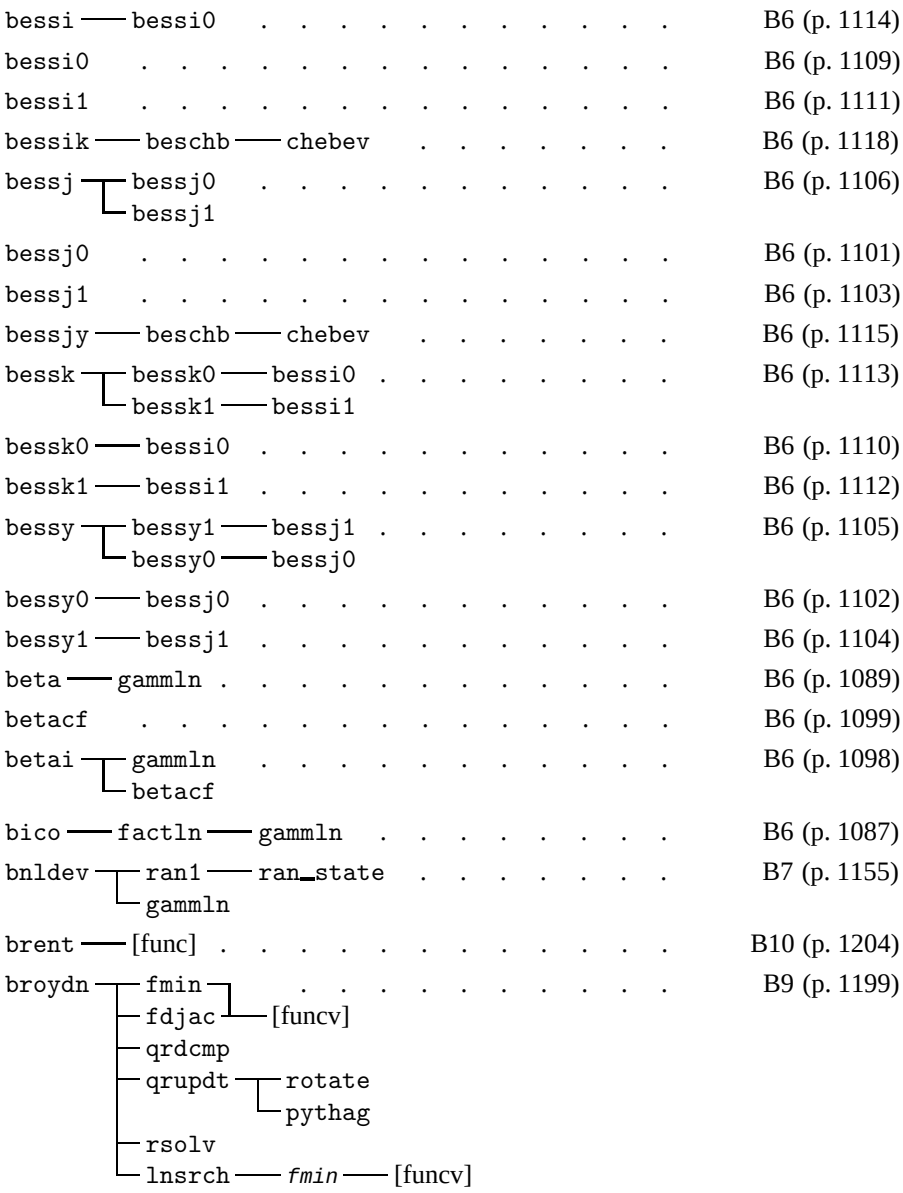
`bandec` . . . . . B2 (p. 1020)

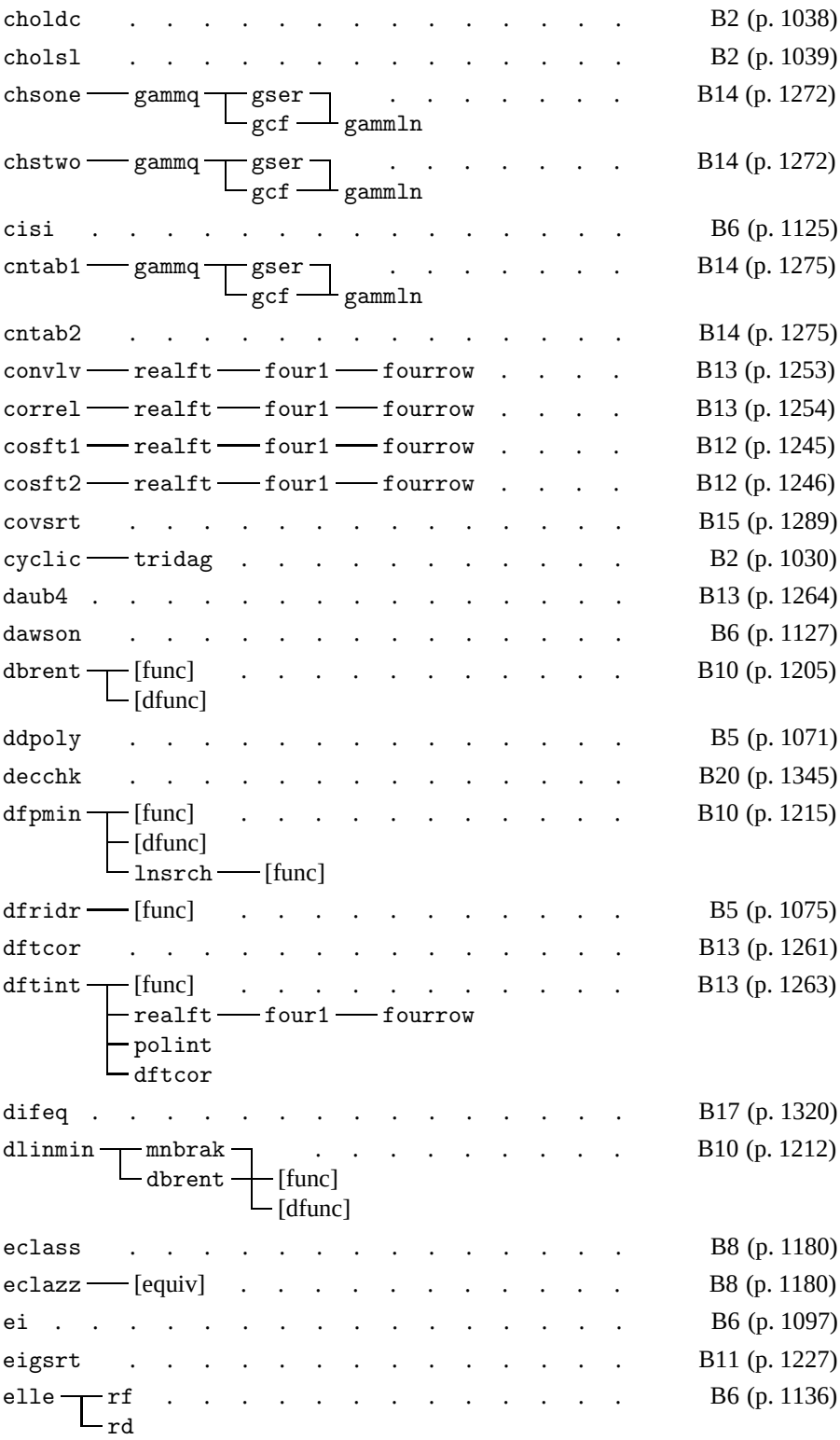
`banmul` . . . . . B2 (p. 1019)

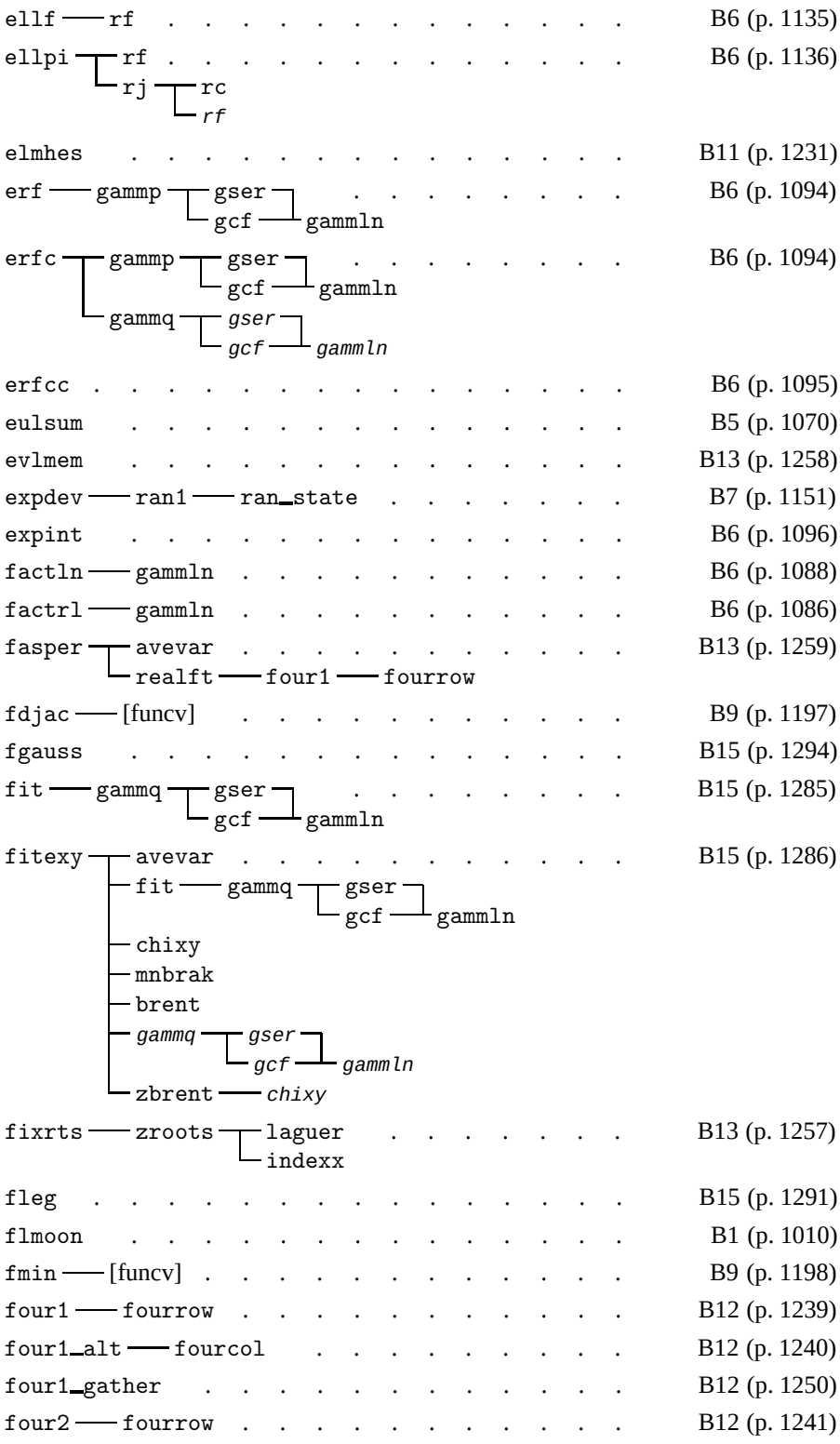
`bcucof` . . . . . B3 (p. 1049)

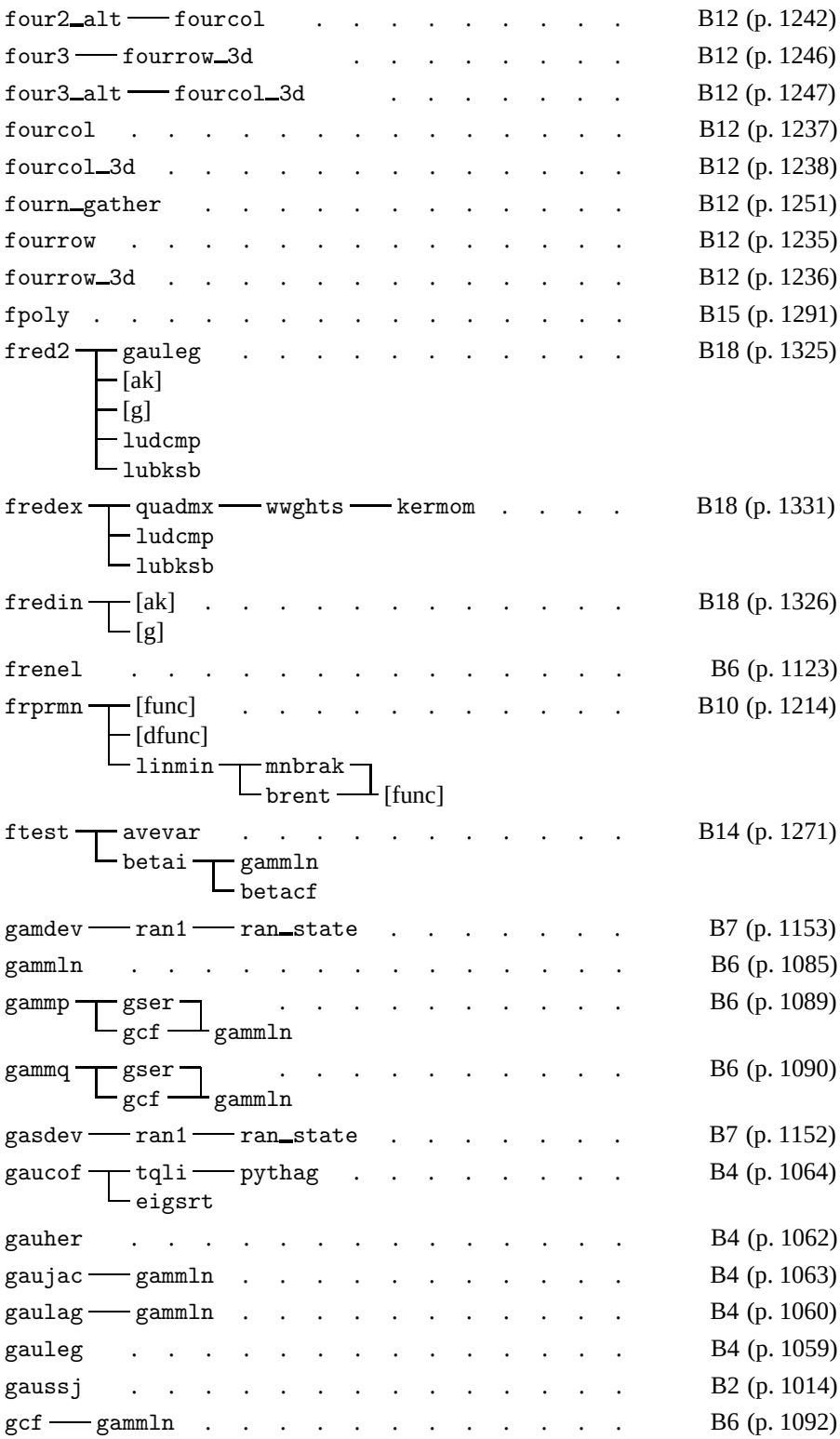
B3 (p. 1050)

B6 (p. 1118)









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)

lfit — [funcs] . . . . . B15 (p. 1288)
  gaussj
  covsrt

linbcg — atimes . . . . . B2 (p. 1034)
  snrm
  asolve

linmin — mnbrak — [func] . . . . . 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 . . . . . B7 (p. 1164)
  [func]

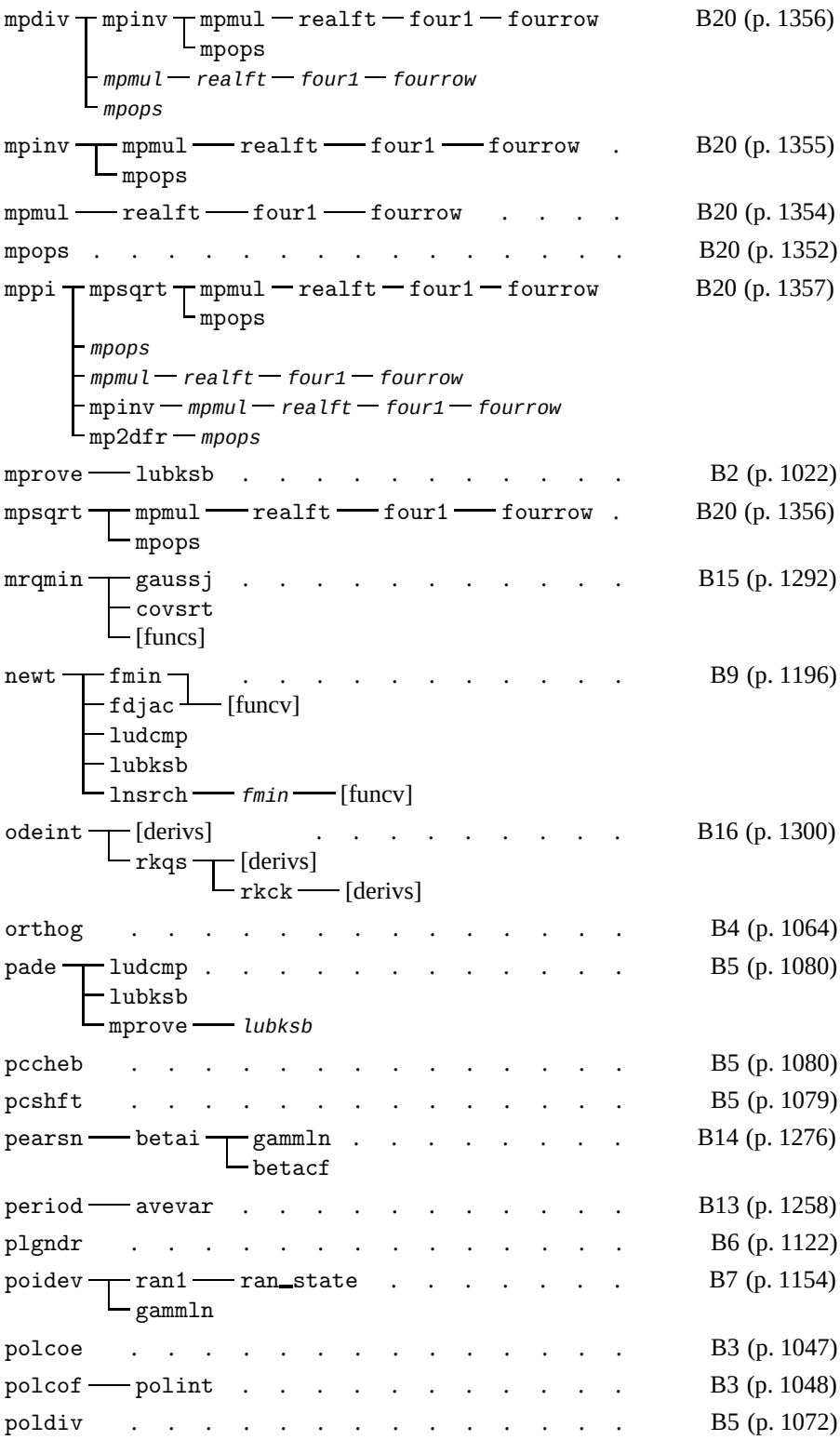
mmid — [derivs] . . . . . B16 (p. 1302)

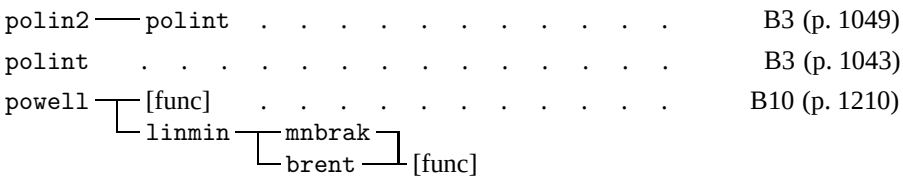
mnbrak — [func] . . . . . B10 (p. 1201)

mnewt — [usrfun] . . . . . B9 (p. 1194)
  ludcmp
  lubksb

moment . . . . . B14 (p. 1269)

mp2dfr — mpops . . . . . B20 (p. 1357)





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)