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! rev. 7.2      sept. 19/94 - added ireach(n) for dwoper input
! rev. 7.3      dec. 20/94 - added uz & lz drainage in runof4
! rev. 7.31     jan. 08/95 - set record length for 40 flow sta
! rev. 7.31.1   jan. 08/95 - set met data source for lapse rate
! rev. 7.32     feb. 07/95 - added nopt to select opt flow sta
! rev. 7.33     feb. 20/95 - fixed flow initialization
! rev. 7.4      feb. 24/95 - added 4 classes - max = 10
! rev. not completed
! rev. 7.41     apr. 15/95 - calc strmf1 output /w inp fmt
! rev. 7.42     may. 15/95 - check for div. by 0 in runof4
! rev. 7.5      seperate snow covered and bare ground
!              modified for separation of snowcovered ground and
!              bare ground by Frank Seglenieks Feb/1995 new
!              runof5 debugged and intergrated by NK July/1995
! rev. 7.51     oct. 08/95 - revise init channel flow in SUB
! rev. 7.52     oct. 23/95 - check for opt constraints in main1
! rev. 7.6      nov. 13/95 - added andrea's sediment routines
! rev. 7.7      dec. 25/95 - added Allyson's Columbia routing
! rev. 7.71     jan. 15/95 - fixed bug in uzs calculation
!              uzs-retn =freely draining water
! rev. 7.72     feb. 04/96 - took flowinit.for from sub.for
! rev. 7.73     feb. 21/96 - fixed sca-continuity / runof5
! rev. 7.74     may. 23/96 - include lapse rate & elv ref
!              as part of .tmp file
! rev. 7.75     may. 27/96 - added ak2fs in param & runof5
! rev. 7.76     jun. 11/96 - # classes increased to 16 + urban
! rev. 7.77     Jul. 02/96 - fixed snow redistribution
! Rev. 7.78     Sept. 29/96 - fileio: modified for error checking

! rev. 7.80     Oct. 29/96 - spl7 added yymmdd.rin for res inflows
!              - unit = 39 fln = 09
! rev. 7.81     Nov. 07/96 - rdevt: added flags for stuff
! rev. 7.83     Nov. 30/96 - fix div. by 0 - check - in lst.for
! rev. 7.84     Dec. 16/96 - changed pmelt so that snowmelt only
!              occurs on snow covered area

! rev. 8.0      Dec 18/96 - Added Todd Neff's evaporation
! rev. 8.1      Feb. 15/97 - TBC & RSM (to be continued & resume)
! rev. 8.2      Feb. 15/97 - parameter selection for opt in main1
! rev. 8.21     Mar. 15/97 - rain/snow choice tied to base temp
! rev. 8.22     Mar. 15/97 - glacier MF 2X when new snow=gone
! rev. 8.23     Mar. 25/97 - fixed bug in route - keep qo2 for res
! rev. 8.24     Apr. 07/97 - added glacier melt multiplier gladjust
!              - used uzs-retn to determine freely
!              draining water
! rev. 8.25     May. 22/97 - fixed allocating the basin # in
!              flowinit
! rev. 8.3      May. 22/97 - added the simout/outfiles capability
! rev. 8.31     June 3/97 - added initial uzs values in evap.par
! rev. 8.32     June 13/97 - bypassed non-flagged parameters in OPT
! rev. 8.4      July 16/97 - fixed melt routine and added init def
! rev. 8.41     July 21/97 - added tipm to the optimization table
! rev. 8.5      Oct. 09/97 - deleted the old interception stuff
! rev. 8.51     Oct. 09/97 - fixed -ve qr() problem in runof5
! rev. 8.52     Nov. 14/97 - replaced x4()= in runof
! rev. 8.60     Nov. 14/97 - added sl2 to the interflow calculation
! rev. 8.61     Dec. 12/97 - added contflg for statistics cont'n
! rev. 8.62     Dec. 30/97 - fixed param s/r comb'd et & par flgs
! rev. 8.70     Jan. 23/98 - added precip adjustment in rain.for
! rev. 8.71     Feb. 24/98 - added evpflg2 to rdevt.for
! rev. 8.72     Mar. 5/98 -tw: moved flgevp2 data statement to
!              spl.for
! rev. 8.73     Mar. 1/98 - changed mhrd to mhtot in flowinit
! rev. 8.74     Mar. 31/98 - reinvented fs stuff in opt
! rev. 8.75     Apr. 27/98 - took da out of the resume file
! rev. 8.76     May 26/98 - added precadj diagnostic to rain.for
! rev. 8.77     June 1/98 - added sub-basin error calculation
! rev. 8.78     July 7/98 - added scalesnw and scaletem to rdevt
! rev. 8.79     July 7/98 - added 24 water survey format in strfw
! rev. 8.80     July 9/98 - fixed precip shutdown after smearing
! rev. 8.81     July 17/98 - precip adjust for T > 0 C only
! rev. 8.82     July 10/98 - added runoff output option: routeflg
! rev. 8.83     Sep. 23/98 - moved step args to area2.for
! rev. 8.84     Sep. 28/98 - added runoff and evap fields to
!              spl.txt
! rev. 8.85     Oct. 12/98 - fixed rain & snow on water class

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! rev. 8.86 Nov. 02/98 - fixed opt problem found by ted.
! - fixed tto(n)=0 problem in etin
! rev. 8.87 Nov. 17/98 - added watbal.for for water balance
! rev. 8.88 Nov. 23/98 - fmadjust function of degree days
! rev. 8.89 Nov. 30/98 - simplified uzs parameters
! rev. 8.90 Dec. 04/98 - input to memory for opt runs
! rev. 8.91 Dec. 07/98 - read rdevt in sub as well as spl!
! rev. 8.92 Dec. 24/89 - check for 100% aclass coverage
! rev. 8.93 Jan. 17/99 - sub modified for spl & watroute
! rev. 8.94 Feb. 01/99 - crseflg to read resume & snow course
! rev. 8.94a Feb. 02/99 - reset heat deficit to 0.0 on Sept.01
! rev. 8.94b Feb. 06/99 - temperature correction and stop cmd
! rev. 8.94c&d Feb. 20/99 - made paf.txt/error.txt default order
! rev. 8.94e Feb. 24/99 - added surfer output for error in lst
! rev. 8.95 Mar. 15/99 - computed mean flows for time increment
! - involved getting rid of /kt throughout
! rev. 8.96 Apr. 26/99 - lower zone function related to nbsn
! rev. 8.96.1 May 12/99 - added ireport for reporting interval
! rev. 8.97 July 12/99 - demonstration copy addition
! rev. 8.98 July 15/99 - met grid shifting for weather models
! rev. 8.99 Aug. 18/99 - replaced err= with iostat= for f90
! rev. 8.99a Jul. 99 - lat-long watershed data
! rev. 8.99b Sept. 27/99 - divvy up interflow & drainae
! rev. 8.99c Oct. 5/99 - ithub -> sl2 input in shed
! rec. 8.99e Nov. 29/99 - heat deficit initialization
! rev. 8.99f Jan. 7/00 - changed uzs calcs re: shari's data
! rev. 8.99g Feb. 7/00 - added ttoint to init evaporation
! rev. 8.99k feb. 15/2001 - fixex deficit calc in melt.for see9.06k
! rev. 8.99l Oct. 2001 - fixed reservoir release timing in spl8
! rev. 8.99mm Dec. 13/2001- added check for <= 0 init res flow
! rev. 8.99n Dec. 31/2001- fixed nat. res initial flow (JW)
! rev. 9.0 Mar. 21/00 - ts: converted to Fortran 90
! - added dynamic memory allocation
! - added wfo file for ensim
! rev. 9.01 Fall 2000 - added wetland routing model
! Aug. 1/00 - added look up for minimum temperature
! and function to calculate RH
! rev. 9.02 Oct. 5/00 - added option to debug on one grid
! rev. 9.03 Jan. 7/01 - set min precip rate for smearing
! rev. 9.04 Jan 16/01 - fixed grid diagnosis in flowinit
! rev. 9.05 Feb. 6/01 - chngd unit 61 to snw1.csv for surfer
! rev. 9.06k Feb. 15/01 - fixed deficit calc in melt (rem. qlz.txt) =8.99k
! rev. 9.07 Mar. 14/01 - fixed use of opt par's for numa=0
! rev. 9.08 Mar. 26/01 - checked limits on heat def.
! rev. 9.08.01 Apr. 3/01 - check wetland designation in param
! rev. 9.1 May 7/01 - updated Luis's sed & nutrient stuff
! rev 9.1.02 July 12/01 - put in dacheck in flowinit for wetland flag
! rev 9.1.03 July 24/01 - added polinomial to reservoir routing
! rev. 9.1.04 Oct. 4/01 - added A7 for weighting old/new sca in melt
! - fixed Jan. 17/02 - didn't work before
! rev. 8.99n Dec.31/2001 - fixed nat. res initial flow (JW)
! rev. 9.1.05 Oct. 4/01 - new format parameter file
! rev. 9.1.06 Oct. 16/01 - nrivr added to area3 to set # river types
! rev. 9.1.07 Jan. 3/02 - check that outlet is in a lake
! rev. 9.1.08 Jan. 17/02 - fixed rev. 9.1.04
! rev. 9.1.09 Jan. 21/02 - fixed reservoir release timing in spl9 see8.99l
! rev. 9.1.10 Jan. 29/02 - flow nudging added for nopt(1)=2
! rev. 9.1.11 Feb. 07/02 - fixed bug in reservoir routing
! rev. 9.1.12 Mar. 15/02 - added xdelta and ydelta for ensim
! rev. 9.1.13 Mar. 23/02 - fixed resv. timing, moved to beginning of dt
! rev. 9.1.14 Mar. 24/02 - fixed wetland min time step & outflow
! rev. 9.1.15 Apr. 02/02 - Luis' sediment stuff runs. Not checked with old version.
! rev. 9.1.16 Apr. 03/02 - Added wetland conditional to select river w/wo wetland
! rev. 9.1.17 May 05/02 - Some tidying up
! rev. 9.1.18 Jun. 03/02 - Added sub-watershed modelling capability
! rev. 9.1.19 Jun. 22/02 - Added A9 as the max heat deficit/swe ratio
! rev 9.1.20 Jun. 25/02 - Added A10 as the power on the UZ discharge function
! rev. 9.1.21 Jun. 28/02 - Added wetland storage & outflow to the wfo file
! rev. 9.1.22 Jul. 22/02 - Added simout\error.r2s file for ENSIM_Hydrologic
! rev. 9.1.23 Jul. 23/02 - Added control for nudging in event #1
! rev 9.1.24 Sep. 11/02 - Added scaleallsnw to set snw scale in event 1
! rev 9.1.25 Sep. 11/02 - Added A11 as bare ground equiv. vegn height
! rev. 9.1.26 Sep. 11/02 - fixed wetland evaporation re: uzsi
! rev. 9.1.27 Sept. 19/02 - Added isbafg
! rev. 9.1.28 Sept. 19/02 - Added shedlfg to replace the bsnm.shd file
! rev. 9.1.29 Nov. 07/02 - Changed the threshold flow values for error calculations

! rev. 9.1.30 Nov. 08/02 - added ql, qint, drng & qlz to the wfo file
! rev. 9.1.31 Nov. 13/02 - Fixed the wetland Q to account for wetland area
! rev. 9.1.32 Nov. 20/02 - Fixed fpetmon() wrt. h()
! rev. 9.1.33 Dec. 05/02 - Fixed instability in wetland flow
! rev. 9.1.34 Dec. 23/02 - Added ensim1flg - if ensim1flg='a' for 1st id then 'y' for all e
vents
! rev. 9.1.35 Dec. 26/02 - Added wetland & channel heights to the wfo file
! rev. 9.1.36 Jan. 28/03 - Fixed wetland init condition in flowinit
! rev. 9.1.37 Mar. 22/03 - Option to turn off leakage by setting LZf < 0.0
! rev. 9.1.38 Mar. 31/03 - revised str header and routing dt selectable
! rev. 9.1.39 Apr. 06/03 - Fixed wetland routing when channel is dry
! rev. 9.1.40 Apr. 24/03 - Min time step A6 read in strfw over rides the A6 from the par f
ile
! rev. 9.1.41 May 15/03 - Event average flows output to unit=75
! rev. 9.1.42 May 31/03 - Tracer module added - first try
! rev. 9.1.43 Jun. 01/03 - Fixed the qdwpr.txt function - re: last grid in lake
! rev. 9.1.44 Jun. 11/03 - Added Cumulative precip to the wfo file
! rev. 9.1.45 Jun. 11/03 - WATROUTE: runoff, recharge and leakage files added
! rev. 9.1.46 Jul. 17/03 - WATFLOOD LITE incorporated
! rev. 9.1.47 July 24/03 - TS: Tracer s/r deallocations added
! rev. 9.1.48 Dec. 08/03 - NK: sumrechrge() added to get total recharge
! REV. 9.1.49 Nov. 23/03 - TS: Added wetlands to GW Tracer + Wetland Tracer
! rev. 9.1.50 Jan. 14/04 - NK: version number added to the wfo spec.txt file
! rev. 9.1.51 Jan. 28/04 - NK: added iz.ne.jz conditional to ENSIM output
! rev. 9.1.52 Mar. 11/04 - NK: continuous water quality modelling
! rev. 9.1.53 Mar. 14/04 - NK: hasp key configured
! rev. 9.1.54 Apr. 12/04 - NK: SEDFLG set for multiple events at event No. 1
! rev. 9.1.55 Jun. 12/04 - NK: write new str files to strfw/newfmt folder.
! rev. 9.1.56 Jun. 18/04 - NK: write new rel & rin files to resrl/newfmt folder.
! rev. 9.1.57 Jul. 06/04 - NK: Fixed major bug in shed.for max instead of min
! rev. 9.1.58 Jul. 12/04 - NK: New header for the .shd file
! rev. 9.1.59 Jul. 15/04 - NK: split rerout into two parts: rdresv & rerout
! rev. 9.1.60 Jul. 27/04 - NK: reversed definitions for s11 & s12 Int. Slope
! rev. 9.1.61 Aug. 25/04 - NK: Check for repeated met data in RAIN
! rev. 9.1.62 Sep. 08/04 - NK: Fixed the conversion factor in SNW.FOR (cnv)
! rev. 9.1.63 Sep. 29/04 - NK: Added iopt start as an arg for quick filecheck
! rev. 9.1.64 Oct. 03/04 - NK: Coded up new header in ragmet.for
! rev. 9.1.65 Oct. 03/04 - NK: Coded up new header for snow course file
! rev. 9.1.66 Oct. 17/04 - NK; pet*ftall for loss from water instead of pet
! rev. 9.1.67 Oct. 21/04 - NK; added unit 80 for lake stor & lake flow
! rev. 9.1.68 Dec. 19/04 - NK: rewrote rdflow c/w memory allocation
! rev. 9.1.69 Dec. 19/04 - NK: rewrote rdresv c/w memory allocation
! rev. 9.1.70 Dec. 21/04 - NK: rewrote rdrain c/w memory allocation
! rev. 9.1.71 Dec. 28/04 - NK: rewrote rdtemp c/w memory allocation
! rev. 9.1.72 Dec. 28/04 - NK: fix bug in rdresv setting reach #
! rev. 9.1.73 Jan. 25/05 - NK: rewrote rdcrse c/w memory allocation
! rev. 9.1.74 Feb. 08/05 - NK: trashed rscrse replaced with rdswe
! rev. 9.1.75 Feb. 08/05 - NK: added rdgsm (gridded soil moisture)
! rev. 9.1.76 Mar. 09/05 - NK: separated glacier parameters in par file
! rev. 9.1.77 Mar. 07/05 - NK: added .psm .gsm & .glz files
! rev. 9.1.78 Mar. 15/05 - NK: added WQD file to event file
! rev. 9.1.79 Mar. 30/05 - NK: ktri to area2 for reservoir inflow dt
! rev. 9.1.80 Mar. 31/05 - NK: added sublimation (sublim)
! rev. 9.1.81 Apr. 04/05 - NK: added sublimation,et and etfs to wfo file
! rev. 9.2 Jun. 02/05 - NK: Numerous changes to program organization
! rev. 9.2.01 Jun. 29/05 - NK: Added write r2s
! rev. 9.2.02 Jun. 29/05 - NK: Added read r2s
! rev. 9.2.03 Jul. 11/05 - NK: Added s/r precip adjust
! rev. 9.2.04 Jul. 13/05 - NK: allocation check for resrl
! rev. 9.2.05 Jul. 15/05 - NK: reversed order of reading resume file
! rev. 9.2.05 Jul. 27/05 - NK: initialized delta in s/r compute error
! rev. 9.2.06 Jul. 28/05 - NK: normalized error with da for optimization
! rev. 9.2.07 Jul. 29/05 - NK: soilinit moved from runoff to sub
! rev. 9.2.08 Jul. 29/05 - NK: opt work-around in options
! rev. 9.2.09 Sep. 11/05 - NK: removed write par.for from rdpar.for
! rev. 9.2.10 Sep. 11/05 - NK: unlimited comments on .shd & .map files
! rev. 9.2.11 Sep. 15/05 - NK: added Manning's n r1n & r2n
! rev. 9.2.12 Sep. 15/05 - NK: added EXCEL eqn to flowinit
! rev. 9.2.13 Sep. 28/05 - NK: added freeze and break up to route
! rev. 9.2.14 Sep. 29/05 - NK: Added control for opt in event #1
! rev. 9.2.15 Sep. 30/05 - NK: Fixed bug for opt in flowinit
! rev. 9.2.16 Oct. 10/05 - NK: Fixed bug for widep in rdpar
! rev. 9.2.17 Oct. 11/05 - NK: Fixed bug for .str bounds in route
! rev. 9.2.18 Oct. 27/05 - NK: Fixed bug in flowinit (init spike)
! rev. 9.2.19 Oct. 28/05 - NK: Compute daily & monthly flows
! rev. 9.2.20 Oct. 28/05 - NK: WFO_SPEC - reporting start & finish times

!	rev.	9.2.21	Nov.	11/05	- NK: Set nopt in first event .str file
!	rev.	9.2.22	Nov.	15/05	- NK: Fixed hmax bug in rdpar
!	rev.	9.2.23	Nov.	22/05	- NK: Fixed res(n)=0 bug in route
!	rev.	9.2.24	Dec.	07/05	- BT: DDS optimization
!	rev.	9.2.25	Dec.	13/05	- NK: ENSIM r2c gridded soil moisture
!	rev.	9.2.26	Dec.	23/05	- NK: Fixed reservoir outlet location bug
!	rev.	9.2.27	Jan.	20/06	- NK: Separated header read in rdtemp
!	rev.	9.2.28	Jan.	30/06	- NK: Added low slope a4 for grids with water
!	rev.	9.2.29	Feb.	07/06	- NK: Read resv coeff first event only
!	rev.	9.2.30	Feb.	07/06	- NK: Added class distribution.txt to output
!	rev.	9.2.31	Feb.	09/06	- NK: Added area chaek to rdresume
!	rev.	9.2.32	Feb.	10/06	- NK: Added area check.csv to output
!	rev.	9.2.33	Feb.	14/06	- NK: str stations from first event ONLY!!
!	rev.	9.2.34	Mar.	21/06	- NK: Activated glacier tracer1
!	rev.	9.2.35	Mar.	22/06	- NK: Glacier flow bypasses wetlands
!	rev.	9.2.36	Mar.	30/06	- NK: Scaleallsnow changed to scale precip snow
!	rev.	9.2.37	Mar.	31/06	- NK: Removed impervious area as special class
!	rev.	9.2.38	Apr.	28/06	- NK: Lower bound set on a12 for smearing
!	rev.	9.2.39	May.	09/06	- NK: t added to route & rerout arg list
!	rev.	9.2.40	Jun.	09/06	- NK: added tto(),ttomin(),ttomax() to resume
!	rev.	9.2.41	Jun.	15/06	- NK: changed the resin.txt file to resin.csv
!	rev.	9.2.42	Jun.	20/06	- NK: water class included in the water balance
!	rev.	9.2.43	Jun.	21/06	- NK: fixed spikes in route
!	rev.	9.3.02	Jul.	18/06	- NK: converted runoff, rchrg & lkage to r2c
!	rev.	9.3.03	Sep.	09/06	- NK: read s(i,j) from table instead of grid
!	rev.	9.3.04	Oct.	24/06	- NK: routing parameters dim to na in rte
!	rev.	9.3.05	Nov.	13/06	- NK: adder write flowinit.for to flowinit.for
!	rev.	9.3.06	Dec.	17/06	- NK: added precip adjustment for bias
!	rev.	9.3.07	Dec.	29/06	- NK: added sum precip for whole domain
!	rev.	9.3.08	Jan.	15/07	- NK: added lzs init new.r2c output to sub.for
!	rev.	9.3.09	Jan.	17/07	- NK: all file name lenghts = 60 in area12
!	rev.	9.3.10	Jan.	29/07	- NK: routing pars changed to gridded values
!	rev.	9.3.11	Feb.	28/07	- NK: ch par added / event file ver = 9.5
!	rev.	9.4.01	Apr.	17/07	- NK: added deltat report for gridflow.r2c
!	rev.	9.4.02	Apr.	18/07	- NK: moved rf, rffs from areawq to areal
!	rev.	9.4.03	Apr.	18/07	- NK: For water ev(n,ii)=pet(n,ii)*fpet(ii)
!	rev.	9.4.04	Apr.	23/07	- NK: moved allocate for melt from melt > spl
!	rev.	9.4.05	May.	04/07	- NK: revised timer for julian day calc.
!	rev.	9.4.06	May.	09/07	- NK: replaced por with spore(n,ii) in runoff6
!	rev.	9.4.07	May.	15/07	- NK: converted opt to gridded routing parameters
!	rev.	9.4.08	May.	29/07	- NK: changed baseflow argument list
!	rev.	9.4.09	Jun.	19/07	- NK: added lake area as a variable for iso
!	rev.	9.4.10	Jun.	19/07	- NK: adjusted frac for channel water area
!	rev.	9.4.11	Jun.	22/07	- NK: reordered rerout for glake
!	rev.	9.4.12	Jul.	06/07	- NK: put qr + qstream - strloss back in runoff6
!	rev.	9.4.13	Jul.	09/07	- NK: modified lzs to account for lake area (flowinit)
!	rev.	9.4.14	Jul.	09/07	- NK: added lake loss file
!	rev.	9.4.15	Jul.	31/07	- NK: moved stuff from resume -> soil & flow init
!	rev.	9.5	Sep.	07/07	- NK: changed wetland/channel routing
!	rev.	9.5.01	Oct.	15/07	- NK: added wetland continuity check
!	rev.	9.5.02	Oct.	21/07	- NK: set init qdwpr=0.0 in route
!	rev.	9.5.03	Dec.	09/07	- NK: added reads for precip isotopes
!	rev.	9.5.04	Dec.	27/07	- NK: fixed bug in wetland routing
!	rev.	9.5.05	Jan.	13/08	- NK: added check for rec() in spl
!	rev.	9.5.06	Feb.	05/08	- NK: added pool and pool o in rdpar & route
!	rev.	9.5.07	Feb.	05/08	- NK: fixed double counting of strloss & qstream
!	rev.	9.5.08	Feb.	08/08	- NK: new event parser
!	rev.	9.5.09	Feb.	12/08	- NK: added evap.r2c to the output files
!	rev.	9.5.10	Feb.	12/08	- NK: added water area in lake evap
!	rev.	9.5.11	Feb.	12/08	- NK: added -ve storage check for reservoirs
!	rev.	9.5.12	Feb.	13/08	- NK: added evaporation input file with read r2c
!	rev.	9.5.13	Feb.	25/08	- NK: changed tolerance for coordinate check to .gt.0.001
!	rev.	9.5.14	Feb.	26/08	- NK: padded rel file for missing data
!	rev.	9.5.15	Feb.	28/08	- NK: fixed tdum & xdum for proper grid area in lat-long
!	rev.	9.5.16	Feb.	28/08	- NK: moved precip adjust to sub
!	rev.	9.5.17	Feb.	28/08	- NK: moved scale snow from sub to process rain
!	rev.	9.5.18	Mar.	03/08	- NK: added conv to options & sub argument list
!	rev.	9.5.19	Mar.	05/08	- NK: prevented use of tracer * iso models with nudging
!	rev.	9.5.20	Mar.	06/08	- NK: added resvstore for iso model
!	rev.	9.5.21	Mar.	06/08	- NK: fixed dtmin for first time step each event
!	rev.	9.5.22	Mar.	12/08	- NK: added grdflg to print gridded flow, swe & evap
!	rev.	9.5.23	Mar.	12/08	- NK: fixed allocation error in read resv ef
!	rev.	9.5.24	Mar.	18/08	- NK: fixed missing data in read resl ef.f
!	rev.	9.5.25	Mar.	20/08	- NK: fixed lake initiation - moved code route -> flowinit
!	rev.	9.5.26	Apr.	04/08	- NK: added Julian day calc. to read evt
!	rev.	9.5.27	Apr.	15/08	- NK: fixed allocation for chnl in rdpar

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! rev. 9.5.28 Apr. 15/08 - NK: fixed allocation for inbsnflg in flowinit
! rev. 9.5.29 May. 26/08 - NK: fixed initialization in read resv ef
! rev. 9.5.30 May. 26/08 - NK: conv back in read rain & process rain arg. list
! rev. 9.5.31 May. 27/08 - NK: moved tots nw(n) computation in sub
! rev. 9.5.32 Jun. 04/08 - NK: compute reservoir levels
! rev. 9.5.33 Sep. 12/08 - NK: added column labels for grapher in flow_station_location.xy
z
! rev. 9.5.34 Sep. 17/08 - NK: fixed lake area in flowinit
! rev. 9.5.35 Sep. 22/08 - NK: moved flow sta_location to flowinit
! rev. 9.5.36 Oct. 01/08 - NK: fixed ires bug for unevent dx & dy in read resv
! rev. 9.5.37 Oct. 14/08 - NK: added deltat report to lake sd.csv file write
! rev. 9.5.38 Oct. 14/08 - NK: added optional coef6 & 7 to rel file for lake levels
! rev. 9.5.39 Oct. 15/08 - NK: fixed bug in reservoir routing
! rev. 9.5.40 Oct. 21/08 - NK: added diversions to rerout
! rev. 9.5.41 Oct. 22/08 - NK: read in reservoir coefficients each event
! rev. 9.5.42 Oct. 22/08 - NK: added b7() as the initial lake surface elevation
! rev. 9.5.43 Oct. 27/08 - NK: changed bottom part of par file to be free format
! rev. 9.5.44 Oct. 27/08 - NK: removed code & obj modules for hasp & rainbow
! rev. 9.5.45 Dec. 16/08 - NK: added various error calculations - user's choice with errfl
g
! rev. 9.5.46 Dec. 23/08 - NK: trying to fix problem with -ve storage. Changed conditional
to .lt.
! rev. 9.5.47 Dec. 26/08 - NK: add flwinitflg to warn about initial flows
! rev. 9.5.48 Dec. 26/08 - NK: added event fln() to allow unlimited events
! rev. 9.5.49 Dec. 31/08 - NK: changed conditional to read releases in rerout
! rev. 9.5.50 Jan. 05/09 - NK: read evap data for reaches only
! rev. 9.5.51 Jan. 13/09 - NK: added reading yyyymmdd ill.pt2 for all lakes
! rev. 9.5.52 Jan. 20/09 - NK: added reading yyyymmdd_div.pt2 for diversions
! rev. 9.5.53 Jan. 20/09 - NK: undid rev. 9.5.40
! rev. 9.5.54 Feb. 11/09 - NK: undid rev. 9.2.28
! rev. 9.5.55 Feb. 11/09 - NK: Correct R2n for instream lakes
! rev. 9.5.56 Mar. 26/09 - NK: Fix bug with month in yearly events
! rev. 9.5.57 Apr. 13/09 - NK: added ntrlflg for natural lake flows
! rev. 9.5.58 Apr. 16/09 - NK: added nudgeflg for forcing gauge flows
! rev. 9.5.59 Jul. 26/09 - NK: added fpet lake for each lake in ill file
! rev. 9.5.60 Sep. 01/09 - NK: added deltat report for lake sd.csv file
! rev. 9.5.61 Sep. 03/09 - NK: bug/eloss - added water class for wfo weighted et
! rev. 9.5.62 Sep. 04/09 - NK: new tb0 file for DW routing
! rev. 9.5.63 Sep. 04/09 - NK: moved lapse rate from melt.f to process_temp.f

```