## hdfint

All the output information is contained in ext.sp.h5.

[called by: xspech.]

## contents

1 hdfint 1

1. In addition to the input variables, which are described in global, the following quantities are written to ext.sp.h5:

variable	type	description
mn	integer	number of Fourier modes
im(1:mn)	integer	poloidal mode numbers
in(1:mn)	integer	toroidal mode numbers
Mvol	integer	number of interfaces = number of volumes
iRbc(1:mn,0:Mvol)	real	Fourier harmonics, $R_{m,n}$ , of interfaces
iZbs(1:mn,0:Mvol)	real	Fourier harmonics, $Z_{m,n}$ , of interfaces
iRbs(1:mn,0:Mvol)	real	Fourier harmonics, $R_{m,n}$ , of interfaces
iZbc(1:mn,0:Mvol)	real	Fourier harmonics, $Z_{m,n}$ , of interfaces
forcetol	real	force-balance error across interfaces
ForceErr	real	force-balance error across interfaces
volume	real	total volume = $\sum V_v$
Mrad	integer	the maximum radial (Chebyshev) resolution
TT(0:Mrad,0:1,0:1)	real	the Chebyshev polynomials, $T_l$ , and their derivatives, evaluated at $s=\pm 1$
Btemn(1:mn,0:1,1:Mvol)	real	the cosine harmonics of the covariant poloidal field,
		i.e. $[B_{\theta,j}]$ evaluated on the inner and outer interface in each volume
Bzemn(1:mn,0:1,1:Mvol)	real	the cosine harmonics of the covariant toroidal field,
		i.e. $[B_{\zeta,j}]$ evaluated on the inner and outer interface in each volume
Btomn(1:mn,0:1,1:Mvol)	real	the sine harmonics of the covariant poloidal field,
		i.e. $[B_{\theta,j}]$ evaluated on the inner and outer interface in each volume
Bzomn(1:mn,0:1,1:Mvol)	real	the sine harmonics of the covariant toroidal field,
		i.e. $[B_{\zeta,j}]$ evaluated on the inner and outer interface in each volume
dRbc(1:mn,0:Nvol)	real	Fourier harmonics, $R_j$ , of interfaces; linearly perturbed solution
dZbs(1:mn,0:Nvol)	real	Fourier harmonics, $Z_j$ , of interfaces; linearly perturbed solution
dRbs(1:mn,0:Nvol)	real	Fourier harmonics, $R_j$ , of interfaces; linearly perturbed solution
dZbc(1:mn,0:Nvol)	real	Fourier harmonics, $Z_j$ , of interfaces; linearly perturbed solution
lmns	integer	resolution of straight fieldline transformation

2. All quantities marked as real should be treated as double precision.

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SPEC subroutines;