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% Test cases for Matlab Functions

% Section : DATA IMPORT AND EXPORT

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% 6. Scientific : Netwrk common data

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netcdf.abort(ncid);

netcdf.close(ncid);

ncid = netcdf.create('foo.nc','NC\_NOCLOBBER');

netcdf.endDef(ncid);

val = netcdf.getConstant(param\_name);

val = netcdf.getConstantNames(param\_name);

[numdims, numvars, numglobalatts, unlimdimID] = netcdf.inq(ncid);

libvers = netcdf.inqLibVers;

ncid = netcdf.open(filename, mode);

[chosen\_chunksize, ncid] = netcdf.open(filename, mode, chunksize);

netcdf.reDef(ncid);

oldFormat = netcdf.setDefaultFormat(newFormat);

old\_mode = netcdf.setFill(ncid,new\_mode);

dimid = netcdf.defDim(ncid,'Xdim',50);

lat\_dimID = netcdf.defDim(ncid,'latitude',360);

[dimname, dimlen] = netcdf.inqDim(ncid,0);

dimid = netcdf.inqDimID(ncid,dimname);

netcdf.renameDim(ncid,dimid,'Xdim');

netcdf.copyAtt(ncid,varid,'description',ncid2,varid2);

netcdf.delAtt(ncid,netcdf.getConstant('GLOBAL'),attname);

attval = netcdf.getAtt(ncid,varid,attname);

[gxtype gattlen] = netcdf.inqAtt(ncid,netcdf.getConstant('NC\_GLOBAL'),gattname);

attnum = netcdf.inqAttID(ncid,varid,attname);

attname = netcdf.inqAttName(ncid,varid,0);

netcdf.putAtt(ncid,0,'my\_att',10);

netcdf.renameAtt(ncid,varID,'description','Description');

S = fitsinfo('tst0012.fits');

primaryData = fitsread('tst0012.fits','image','Info', info,'PixelRegion',{[1 2 rowend], [1 2 colend], 5 });

%MISSING COMMANDS%

fileinfo = hdf5info('example.h5');

data = hdf5read(filename,datasetname);

hdf5write('myfile.h5', '/dataset1', uint8(magic(5)));

fileinfo = hdfinfo('example.hdf');

data = hdfread('sd.hdf','temperature');

hdftool('example.hdf');

im1 = multibandread(filename, [rows cols bands],'double', 0, 'bsq', 'ieee-le',{'Band', 'Range', [1 2 bands]} );

multibandwrite(bandData, 'data.bip', 'bip', [1 1 i],[totalColumns, totalRows, totalBands]);

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% 7. Audio Video

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[m d] = aufinfo(aufile);

[y, Fs, nbits] = auread(hfile);

auwrite(y,Fs,N,method,aufile);

avifile(filename, ParameterName, ParameterValue);

fileinfo = aviinfo('filename');

mov = aviread('filename', index);

info = mmfileinfo('xylophone.mpg');

xyloObj = mmreader('xylophone.mpg', 'Tag', 'My reader object');

movie2avi(mov, 'myPeaks.avi', 'compression', 'None');

xyloObj = VideoReader('xylophone.mpg');

vidObj = VideoWriter('peaks.avi');

[m d] = wavfinfo(filename);

[y2, Fs] = wavread(hfile, nsamples);

wavwrite(y,Fs,N,filename);

DriverVersion = audiodevinfo(IO, ID, 'DriverVersion');

player = audioplayer(y, Fs);

recObj = audiorecorder(44100, 16, 2);

sound(y, 2\*Fs);

soundsc(y,Fs,bits,range);

wavplay(y1,Fs1,'sync');

y = wavrecord(5\*Fs,Fs,'int16');

beep;

beep on;

beep off;

s = beep;

mu = lin2mu(y);

y = mu2lin(mu);

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% 8. XML Documents

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xDoc = xmlread('info.xml');

xmlwrite(xmlFileName,docNode);

result = xslt(source, style, dest);

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% 9. Memory Mapping

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disp(obj);

val = get(obj, prop);

m = memmapfile('records.dat','Offset', 1024,'Format', {'uint32' [4 10 18] 'x'});

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% 10. File Name Construction

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M = filemarker;

[pathstr, name, ext] = fileparts(file);

iofun\_dir = ['toolbox' filesep 'matlab' filesep 'iofun']; %COUNTS?

f = fullfile('C:', 'Applications', 'matlab', 'myfun.m');

tmp\_folder = tempdir;

tmp\_nam = tempname;

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% 11. Compression

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gunzip(url,'ncm');

gzip({'\*.m','\*.mat'},'archive');

tar('backup.tgz','.');

untar('mymfiles','backup');

% Zip the demo MAT-files to demos.zip

zip('demos.zip','\*.mat',fullfile(matlabroot,'toolbox','matlab','demos'));

% Unzip demos.zip to the folder 'archive'

unzip('demos','archive');

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% 12. Internet File Access

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mw=ftp('ftp.mathworks.com');

sendmail('user@otherdomain.com','Test subject','Test message',{'folder/attach1.html','attach2.doc'});

exPage = urlread('http:%www.mathworks.com/matlabcentral/fileexchange','get',{'term','urlread'});

urlwrite(...

'http:%www.mathworks.com/matlabcentral/fileexchange',...

'samples.html', ...

'get', ...

{'term','urlwrite'});

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