This document captures ideas, experiences, and informal recommendations from the Yaskawa Partner Support team. It is meant to augment – not supersede manuals or documentation from motoman.com. Please contact the Partner Support team at partnersupport@motoman.com for updates or clarification.

Understanding Files Used by MotoSim

Introduction

Motosim simulations are not like other files. Instead of being a single file, a simulation is a folder full of hundreds to thousands of files - all for one simulation.

The goal of this article is to explain how files and folders used for a simulation is different from other, popular software and how to manage them properly.

Common Examples of Files

Most people are familiar with Microsoft Word or Microsoft Excel files. Each Word document or Excel spreadsheet is a single file.

MyDocument.docx   MySpreadsheet.xlsx

An Excel file (.xlsx) or a Word document (.docx) are single files that hold all their contents (text, images, etc.). Everything is inside one file. There are exceptions, but as a rule, most documents people work with are single files. It is understandable that it would be expected that all applications act the same.

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How MotoSim Simulations Differ from Common Files

Unlike Excel or Word, a MotoSim simulation is not just a single file. This is what people most commonly think of as the whole simulation.
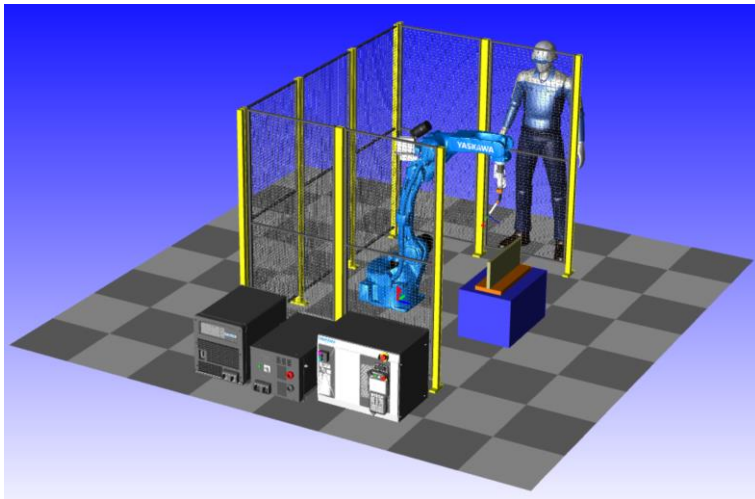

Arc_Sampl
e_YAS.vcl

This is an important file. The .vcl file is a map that locates all the models, the controller, and the various other settings for a simulation. Without it the simulation cannot be executed.

But without the rest of the data, there is no simulation.

Below is an example of a simple simulation with one robot and one controller.

When starting a new simulation, a user gives it a name. MotoSim creates a folder, names that folder, fills in the contents of the folder, and gives the same name to the vcl file - all at the same time. This is folder created by the user. It IS the simulation.

Arc_Sampl
e_YAS

Inside the folder are the contents needed to run the simulation - including the .vcl file.

| models | YRC1000 | Arc_Sampl e_YAS.vcl | Arc_Sampl e_YAS.vcl.b ak | Arc_Sampl e_YAS.xml | Dialog.ini | FastPlayba ck.ini |

It is ESPECIALLY important that everything in this folder stays in the folder, or the simulation will fail to execute.

Simulation Content Details

Below is a listing of the contents of the example simulation discussed above.

Note that this a single robot and single controller with just a few 3D models…but totaling just over **850 files**.

When opening, saving, and closing…. all these files are accessed.

```
Arc_Sample_YAS.vcl    ALLPRM.BIN       COLCOND.BIN      DML3.BIN         EXPCND14.BIN     EXPCND8.BIN      GAUGE.BIN        LNRFLOAT.BIN     OPEORG.BIN       PNTDATA.BAK      REGNAME.BAK      SEALRCV.BAK      SLCND02.BAK      SLCND27.BAK      SLSTC17.BAK      SPOTIO.BAK       UMSG2.BAK
Arc_Sample.vcl.bak    ALMBZ.BAK        COMSRT.BAK       DMLMNG.BAK       EXPCND15.BAK     EXPCND9.BAK      GCHKHIST.BAK     LRNCTLIO.BAK     OPESVDAY.BAK     PNTDATA.BIN      REGNAME.BIN      SEALRCV.BIN      SLCND02.BIN      SLCND27.BIN      SLSTC17.BIN      SPOTIO.BIN       UMSG2.BIN
Arc_Sample_YAS.xml    ALMBZ.BIN        COMSRT.BIN       DMLMNG.BIN       EXPCND15.BIN     EXPCND9.BIN      GCHKHIST.BIN     LRNCTLIO.BIN     OPESVDAY.BIN     PNTIOCND.BAK     RESNAME.BAK      SEALSPCL.BAK     SLCND03.BAK      SLCND28.BAK      SLSTC18.BAK      SPR.BAK          UNITALM.BAK
Dialog.ini            ALMHIST.BAK      CP1616.BAK       DVSCNAD.BAK      EXPCND16.BAK     EXPDATA.BAK      GCHKSET.BAK      LSCALE.BAK       OSCCOND.BAK      PNTIOCND.BIN     RESNAME.BIN      SEALSPCL.BIN     SLCND03.BIN      SLCND28.BIN      SLSTC18.BIN      SPR.BIN          UNITALM.BIN
FastPlayback.ini      ALMHIST.BIN      CP1616.BIN       DVSCNAD.BIN      EXPCND16.BIN     EXPDATA.BIN      GCHKSET.BIN      LSCALE.BIN       OSCCOND.BIN      PNTRECV.BAK      RESOLVCF.BAK     SEALSPD.BAK      SLCND04.BAK      SLCND29.BAK      SLSTC19.BAK      SSHMSFN.BAK      UNIWIRE.BAK
Controller_YR.hsf     ANALOGIP.BAK     CP1616IM.BAK     DVSCNLST.BAK     EXPCND17.BAK     EXPIOCND.BAK     GDCMULTI.BAK     LTRACK.BAK       OvCmsVer.txt     PNTRECV.BIN      RESOLVCF.BIN     SEALSPD.BIN      SLCND04.BIN      SLCND29.BIN      SLSTC19.BIN      SSHMSFN.BIN      UNIWIRE.BIN
Dai.mdl               ANALOGIP.BIN     CP1616IM.BIN     DVSCNLST.BIN     EXPCND17.BIN     EXPIOCND.BIN     GDCMULTI.BIN     LTRACK.BIN       PAINCMPT.BAK     PNTSPC.BAK       RJNAME.BAK       SEALSYS.BAK      SLCND05.BAK      SLCND30.BAK      SLSTC20.BAK      SSTDNET.BAK      USERLANG.BAK
DX-1306070.hsf        ANTOG.BAK        CRCMON.BAK       DVSCNNM.BAK      EXPCND18.BAK     EXPSEUIN.BAK     GENIN.BAK        MACRO.BAK        PAINCMPT.BIN     PNTSPC.BIN       RJNAME.BIN       SEALSYS.BIN      SLCND05.BIN      SLCND30.BIN      SLSTC20.BIN      SSTDNET.BIN      USERLANG.BIN
floor.mdl             ANTOG.BIN        CRCMON.BIN       DVSCNNM.BIN      EXPCND18.BIN     EXPSEUIN.BIN     GENIN.BIN        MACRO.BIN        PAINDBSV.BAK     PNTSYS.BAK       RLCND.BAK        SELACORR.BAK     SLCND06.BAK      SLCND31.BAK      SLSTC21.BAK      STCHCND.BAK      USERMENU.BAK
Human.hsf             ANTOT.BAK        CRLASEN.BAK      EIOALLOC.BAK     EXPCND19.BAK     EXPSPC.BAK       GENOUT.BAK       MAINTLOG.BAK     PAINDBSV.BIN     PNTSYS.BIN       RLCND.BIN        SELACORR.BIN     SLCND06.BIN      SLCND31.BIN      SLSTC21.BIN      STCHCND.BIN      USERMENU.BIN
notes.hmf             ANTOT.BIN        CRLASEN.BIN      EIOALLOC.BIN     EXPCND19.BIN     EXPSPC.BIN       GENOUT.BIN       MAINTLOG.BIN     PAINTCND.BAK     PNTTMCH.BAK      RLDCOND.BAK      SENSPS.BAK       SLCND07.BAK      SLCND32.BAK      SLSTC22.BAK      STEPDIAG.BAK     USERREC.BAK
Safety_fence.hsf      ARCEND.BAK       CRLASST.BAK      EIPCONF.BAK      EXPCND2.BAK      EXPSYS.BAK       GUNOPCOM.BAK     MANBRAKE.BAK     PAINTCND.BIN     PNTTMCH.BIN      RLDCOND.BIN      SENSPS.BIN       SLCND07.BIN      SLCND32.BIN      SLSTC22.BIN      STEPDIAG.BIN     USERREC.BIN
target.mdl            ARCEND.BIN       CRLASST.BIN      EIPCONF.BIN      EXPCND2.BIN      EXPSYS.BIN       GUNOPCOM.BIN     MANBRAKE.BIN     PAINTDEV.BAK     PNTTMCHS.BAK     RLDCOND2.BAK     SETTM.BAK        SLCND08.BAK      SLEXSIG.BAK      SLSTC23.BAK      STROKE.BAK       USRAIN.BAK
Work.mdl              ARCPRM.BAK       CSJOURNL.BAK     EIPINFO.BAK      EXPTMCH.BAK      EXPTMCH.BIN      HCVAR.BAK        MANPRG.BAK       PAINTDEV.BIN     PNTTMCHS.BIN     RLDCOND2.BIN     SETTM.BIN        SLCND08.BIN      SLEXSIG.BIN      SLSTC23.BIN      STROKE.BIN       USRAIN.BIN
X350.hsf              ARCPRM.BIN       CSJOURNL.BIN     EIPINFO.BIN      EXPCND20.BAK     EXPTMCH.BIN      HCVAR.BIN        MANPRG.BIN       PAINTSPE.BAK     POS0.BAK         RLPOS.BAK        SFBSET.BAK       SLCND09.BAK      SLIOCOND.BAK     SLSTC24.BAK      SVGATUNE.BAK     USRAOT.BAK
XACU.hsf              ARCMACCN.BAK     CSPIN.BAK        EIPMSLV.BAK      EXPCND20.BIN     EXPTMCHS.BAK     HMSEIP.BAK       MDRCONF.BAK      PAINTSPE.BIN     POS0.BIN         RLPOS.BIN        SFBSET.BIN       SLCND09.BIN      SLIOCOND.BIN     SLSTC24.BIN      SVGATUNE.BIN     USRAOT.BIN
YMSA_300R_FL.hsf      ARCMACCN.BIN     CSPIN.BIN        EIPMSLV.BIN      EXPCND21.BAK     EXPTMCHS.BIN     HMSEIP.BIN       MDRCONF.BIN      PAINTSYS.BAK     POS1.BAK         RLPTNCND.BAK     SFLGCSYS.BAK     SLCND10.BAK      SLPDCLB.BAK      SLSTC25.BAK      SVMON.BAK        USRGRPIN.BAK
Bookmark.dat          ARCMACHN.BAK     CSSCHE.BAK       ENCHEAT.BAK      EXPCND21.BIN     EXREGNAM.BAK     HMSEIPD.BAK      MDRSETUP.BAK     PAINTSYS.BIN     POS1.BIN         RLPTNCND.BIN     SFLGCSYS.BIN     SLCND10.BIN      SLPDCLB.BIN      SLSTC25.BIN      SVMON.BIN        USRGRPIN.BIN
BreakPt.dat           ARCMACHN.BIN     CSSCHE.BIN       ENCHEAT.BIN      EXPCND22.BAK     EXREGNAM.BIN     HMSEIPD.BIN      MDRSETUP.BIN     PALETTIZ.BAK     POS2.BAK         RLSCND.BAK       SGCLARNC.BAK     SLCND11.BAK      SLSTC01.BAK      SLSTC26.BAK      SVOFFCTR.BAK     USRGRPOT.BAK
HwEmu.ini             ARCSRT.BAK       CTRLOUT.BAK      ENCODER.BAK      EXPCND22.BIN     EXTIN.BAK        HNDGUIDE.BAK     MPCONP.BAK       PALETTIZ.BIN     POS2.BIN         RLSCND.BIN       SGCLARNC.BIN     SLCND11.BIN      SLSTC01.BIN      SLSTC26.BIN      SVOFFCTR.BIN     USRGRPOT.BIN
NXVRC.INI             ARCSRT.BIN       CTRLOUT.BIN      ENCODER.BIN      EXPCND23.BAK     EXTIN.BIN        HNDGUIDE.BIN     MPCONP.BIN       PC3JPALC.BAK     POS3.BAK         RLSPOS.BAK       SGDTL.BAK        SLCND12.BAK      SLSTC02.BAK      SLSTC27.BAK      SWELDER.BAK      USRIDPIL.BAK
OPTION_BOARD.INI      ARCSRTGD.BAK     CUBENAME.BAK     EVBGUN.BAK       EXPCND23.BIN     EXTIPDRS.BAK     HOME2.BAK        MPPRTKEY.BAK     PC3JPALC.BIN     POS3.BIN         RLSPOS.BIN       SGDTL.BIN        SLCND12.BIN      SLSTC02.BIN      SLSTC27.BIN      SWELDER.BIN      USRIDPIL.BIN
PAINTGUN.DAT          ARCSRTGD.BIN     CUBENAME.BIN     EVBGUN.BIN       EXPCND24.BAK     EXTIPDRS.BIN     HOME2.BIN        MPPRTKEY.BIN     PFLFLMT.BAK      POS4.BAK         RLUSER.BAK       SGIO.BAK         SLCND13.BAK      SLSTC03.BAK      SLSTC28.BAK      SYNCWLD.BAK      VARNAME.BAK
VRC.bin               ARCSUP.BAK       CUT.BAK          EVBPAINT.BAK     EXPCND24.BIN     EXTOUT.BAK       IFCF.BAK         MSWCOND.BAK      PFLFLMT.BIN      POS4.BIN         RLUSER.BIN       SGIO.BIN         SLCND13.BIN      SLSTC03.BIN      SLSTC28.BIN      SYNCWLD.BIN      VARNAME.BIN
VRC.bin.bak           ARCSUP.BIN       CUT.BIN          EVBPAINT.BIN     EXPCND25.BAK     EXTOUT.BIN       IFCF.BIN         MSWCOND.BIN      PFLORGP.BAK      POS5.BAK         RMTUSRID.BAK     SGMNLPRS.BAK     SLCND14.BAK      SLSTC04.BAK      SLSTC29.BAK      SYSSETUP.BAK     VISCALIB.BAK
VRCNXMAIN.INI         ARCWDCND.BAK     CVCALIB.BAK      EVBTRBIN.BAK     EXPCND25.BIN     EXTRSV.BAK       IFP.BAK          MSWSETUP.BAK     PFLORGP.BIN      POS5.BIN         RMTUSRID.BIN     SGMNLPRS.BIN     SLCND14.BIN      SLSTC04.BIN      SLSTC29.BIN      SYSSETUP.BIN     VISCALIB.BIN
WELDTIMER.ini         ARCWDCND.BIN     CVCALIB.BIN      EVBTRBIN.BIN     EXPCND26.BAK     EXTRSV.BIN       IFP.BIN          MSWSETUP.BIN     PLUGVOL.BAK      POS6.BAK         RNGCMB.BAK       SGPRS.BAK        SLCND15.BAK      SLSTC05.BAK      SLSTC30.BAK      TDWATCH.BAK      VISION.BAK
DlgSize.ini           ARCWDIAG.BAK     CVNEW.BAK        EXEXTIN.BAK      EXPCND26.BIN     FCTMPDIS.BAK     INTFCSET.BAK     MSWSTPER.BAK     PLUGVOL.BIN      POS6.BIN         RNGCMB.BIN       SGPRS.BIN        SLCND15.BIN      SLSTC05.BIN      SLSTC30.BIN      TDWATCH.BIN      VISION.BIN
PANELBOX.LOG          ARCWDIAG.BIN     CVNEW.BIN        EXEXTIN.BIN      EXPCND27.BAK     FCTMPDIS.BIN     INTFCSET.BIN     MSWSTPER.BIN     PMCOND.BAK       PRESS.BAK        ROBOMONI.BAK     SGPRSCL.BAK      SLCND16.BAK      SLSTC06.BAK      SLSTC31.BAK      TMNAME.BAK       WEAV.BAK
ALL.PRM               ASWSPOT.BAK      CVPAINCL.BAK     EXEXTOUT.BAK     EXPCND27.BIN     FLNETSET.BAK     INTJOB.BAK       MTRLSET.BAK      PMCOND.BIN       PRESS.BIN        ROBOMONI.BIN     SGPRSCL.BIN      SLCND16.BIN      SLSTC06.BIN      SLSTC31.BIN      TMNAME.BIN       WEAV.BIN
GP12#1-06VXH1.mdl     ASWSPOT.BIN      CVPAINCL.BIN     EXEXTOUT.BIN     EXPCND28.BAK     FLNETSET.BIN     INTJOB.BIN       MTRLSET.BIN      PMLOG.BAK        PRESSPRF.BAK     RSVJBTBL.BAK     SGPRSSPT.BAK     SLCND17.BAK      SLSTC07.BAK      SLSTC32.BAK      TOOLAGL.BAK      WELDLEN.BAK
GP12_LK0.hsf          AVDFUNC.BAK      CVPAINEX.BAK     EXGENIN.BAK      EXPCND28.BIN     FLOAT.BAK        IOJOG.BAK        MWPLS.BAK        PMLOG.BIN        PRESSPRF.BIN     RSVJBTBL.BIN     SGPRSSPT.BIN     SLCND17.BIN      SLSTC07.BIN      SLSTC32.BIN      TOOLAGL.BIN      WELDLEN.BIN
GP12_LK1.hsf          AVDFUNC.BIN      CVPAINEX.BIN     EXGENIN.BIN      EXPCND29.BAK     FLOAT.BIN        IOJOG.BIN        MWPLS.BIN        PMSMNG.BAK       PRESSSET.BAK     RSYNCRBN.BAK     SGSPEC.BAK       SLCND18.BAK      SLSTC08.BAK      SLSTSSET.BAK     TOOLCFM.BAK      WELDPROC.BAK
GP12_LK2.hsf          AXRNG.BAK        CVQUE2.BAK       EXGENOUT.BAK     EXPCND29.BIN     FORMCUT.BAK      IOSPDCTL.BAK     MWSEL.BAK        PMSMNG.BIN       PRESSSET.BIN     RSYNCRBN.BIN     SGSPEC.BIN       SLCND18.BIN      SLSTC08.BIN      SLSTSSET.BIN     TOOLCFM.BIN      WELDPROC.BIN
GP12_LK3.hsf          AXRNG.BIN        CVQUE2.BIN       EXGENOUT.BIN     EXPCND3.BAK      FORMCUT.BIN      IOSPDCTL.BIN     MWSEL.BIN        PMTBKTOL.BAK     PRESTEMP.BAK     RTAMON.BAK       SGSPTMNG.BAK     SLCND19.BAK      SLSTC09.BAK      SLSYSCOM.BAK     TOOLCHG.BAK      WELDTYPE.BAK
GP12_LK4.hsf          AXSPD.BAK        CVQUE4.BAK       EXIOSPCT.BAK     EXPCND3.BIN      FSCOMM.BAK       IOTRACE.BAK      NATRULE.BAK      PMTBKTOL.BIN     PRESTEMP.BIN     RTAMON.BIN       SGSPTMNG.BIN     SLCND19.BIN      SLSTC09.BIN      SLSYSCOM.BIN     TOOLCHG.BIN      WELDTYPE.BIN
GP12_LK5.hsf          AXSPD.BIN        CVQUE4.BIN       EXIOSPCT.BIN     EXPCND30.BAK     FSCOMM.BIN       IOTRACE.BIN      NATRULE.BIN      PMTMLOG.BAK      PRESVOLT.BAK     RTAMONDF.BAK     SGTIPDRS.BAK     SLCND20.BAK      SLSTC10.BAK      SLTMR.BAK        TOOLINTF.BAK     WVAMPREG.BAK
GP12_LK6.hsf          BRKCHECK.BAK     CVSUP.BAK        EXPCLB.BAK       EXPCND30.BIN     FSSET.BAK        JMSNEW.BAK       NETCNF.BAK       PMTMLOG.BIN      PRESVOLT.BIN     RTAMONDF.BIN     SGTIPDRS.BIN     SLCND20.BIN      SLSTC10.BIN      SLTMR.BIN        TOOLINTF.BIN     WVAMPREG.BIN
RCS.INI               BRKCHECK.BIN     CVSUP.BIN        EXPCLB.BIN       EXPCND31.BAK     FSSET.BIN        JMSNEW.BIN       NETCNF.BIN       PNCONMMG.BAK     PRSER.BAK        RTSMON.BAK       SGTIPMNG.BAK     SLCND21.BAK      SLSTC11.BAK      SLVINFO.BAK      UALMMSG.BAK      WVSYNC.BAK
robotinf.dat          BRKGRND.BAK      DHCPCCF.BAK      EXPCND1.BAK      EXPCND31.BIN     FSUCRC.BAK       JOBENT.BAK       NETCNPEX.BAK     PNCONMMG.BIN     PRSER.BIN        RTSMON.BIN       SGTIPMNG.BIN     SLCND21.BIN      SLSTC11.BIN      SLVINFO.BIN      UALMMSG.BIN      WVSYNC.BIN
TOOL.CND              BRKGRND.BIN      DHCPCCF.BIN      EXPCND1.BIN      EXPCND32.BAK     FSUCRC.BIN       JOBENT.BIN       NETCNPEX.BIN     PNTCLB.BAK       PRSSENS.BAK      SAFCRC.BAK       SGUNSUP.BAK      SLCND22.BAK      SLSTC12.BAK      SL_COMM.BAK      UALMMSG2.BAK     YSPLOGIC.BAK
YASKAWA_.hsf          CALLTREE.BAK     DIGWELD.BAK      EXPCND10.BAK     EXPCND32.BIN     FSUUSRCD.BAK     JOBMONI.BAK      NXHOSTNM.BAK     PNTCLB.BIN       PRSSENS.BIN      SAFCRC.BIN       SGUNSUP.BIN      SLCND22.BIN      SLSTC12.BIN      SL_COMM.BIN      UALMMSG2.BIN     YSPLOGIC.BIN
LIST.CSV              CALLTREE.BIN     DIGWELD.BIN      EXPCND10.BIN     EXPCND4.BAK      FSUUSRCD.BIN     JOBMONI.BIN      NXHOSTNM.BIN     PNTCND1.BAK      PSEUDOIN.BAK     SCHEDULE.BAK     SGWELDIF.BAK     SLCND23.BAK      SLSTC13.BAK      SNSICOND.BAK     UALMTB.BAK       YSPSET.BAK
ABSPACC.BAK           CCVPAINT.BAK     DML0.BAK         EXPCND11.BAK     EXPCND4.BIN      FTMTBL.BAK       KEYALLOC.BAK     OPEDAY.BAK       PNTCND1.BIN      PSEUDOIN.BIN     SCHEDULE.BIN     SGWELDIF.BIN     SLCND23.BIN      SLSTC13.BIN      SNSICOND.BIN     UALMTB.BIN       YSPSET.BIN
ABSPACC.BIN           CCVPAINT.BIN     DML0.BIN         EXPCND11.BIN     EXPCND5.BAK      FTMTBL.BIN       KEYALLOC.BIN     OPEDAY.BIN       PNTCND2.BAK      RARRSET.BAK      SEALCLB.BAK      SHOCKDE.BAK      SLCND24.BAK      SLSTC14.BAK      SNTPCCF.BAK      UDC.BAK          YSPTMR.BAK
ACOR.BAK              CDO_SLV.BAK      DML1.BAK         EXPCND12.BAK     EXPCND5.BIN      FTPDNSC.BAK      LCALIB.BAK       OPEHOUR.BAK      PNTCND2.BIN      RARRSET.BIN      SEALCLB.BIN      SHOCKDE.BIN      SLCND24.BIN      SLSTC14.BIN      SNTPCCF.BIN      UDC.BIN          YSPTMR.BIN
ACOR.BIN              CDO_SLV.BIN      DML1.BIN         EXPCND12.BIN     EXPCND6.BAK      FTPDNSC.BIN      LCALIB.BIN       OPEHOUR.BIN      PNTCND3.BAK      RBRNGDP.BAK      SEALDATA.BAK     SHOCKLVL.BAK     SLCND25.BAK      SLSTC15.BAK      SPDLMT.BAK       UDEPIO.BAK
AIRGUN.BAK            CIOPRG.BAK       DML2.BAK         EXPCND13.BAK     EXPCND6.BIN      GAPRATIO.BAK     LIFEDIAG.BAK     OPEMONTH.BAK     PNTCND3.BIN      RBRNGDP.BIN      SEALDATA.BIN     SHOCKLVL.BIN     SLCND25.BIN      SLSTC15.BIN      SPDLMT.BIN       UDEPIO.BIN
AIRGUN.BIN            CIOPRG.BIN       DML2.BIN         EXPCND13.BIN     EXPCND7.BAK      GAPRATIO.BIN     LIFEDIAG.BIN     OPEMONTH.BIN     PNTCND4.BAK      RBTRNG.BAK       SEALGUN.BAK      SLCND01.BAK      SLCND26.BAK      SLSTC16.BAK      SPINCOMM.BAK     UMSG.BAK
ALLPRM.BAK            COLCOND.BAK      DML3.BAK         EXPCND14.BAK     EXPCND8.BAK      GAUGE.BAK        LNRFLOAT.BAK     OPEORG.BAK       PNTCND4.BIN      RBTRNG.BIN       SEALGUN.BIN      SLCND01.BIN      SLCND26.BIN      SLSTC16.BIN      SPINCOMM.BIN     UMSG.BIN
```

Imagine when there are multiple controllers and multiple robots.

We have seen simulations with over **5,000 files.**

If any are out of place, the simulation will fail.

Tips for Handling Simulation Folders

1. Never create "nested" simulations inside other simulations.
2. Never move the contents of a simulation to separate locations.
3. It is best to use a pro-grade SSD for storage because of the numerous read/writes.
4. Do not run a simulation off a network share. The latency will likely cause the simulation to crash. Hundreds of small files are being accessed frequently.
5. When sending a simulation to another person always compress the simulation folder (EX: Arc_Sample_YAS).
6. Before archiving a simulation, always compress it. The compression ratio is extremely high (a basic 150MB simulation folder shrinks to .5MB .zip file)