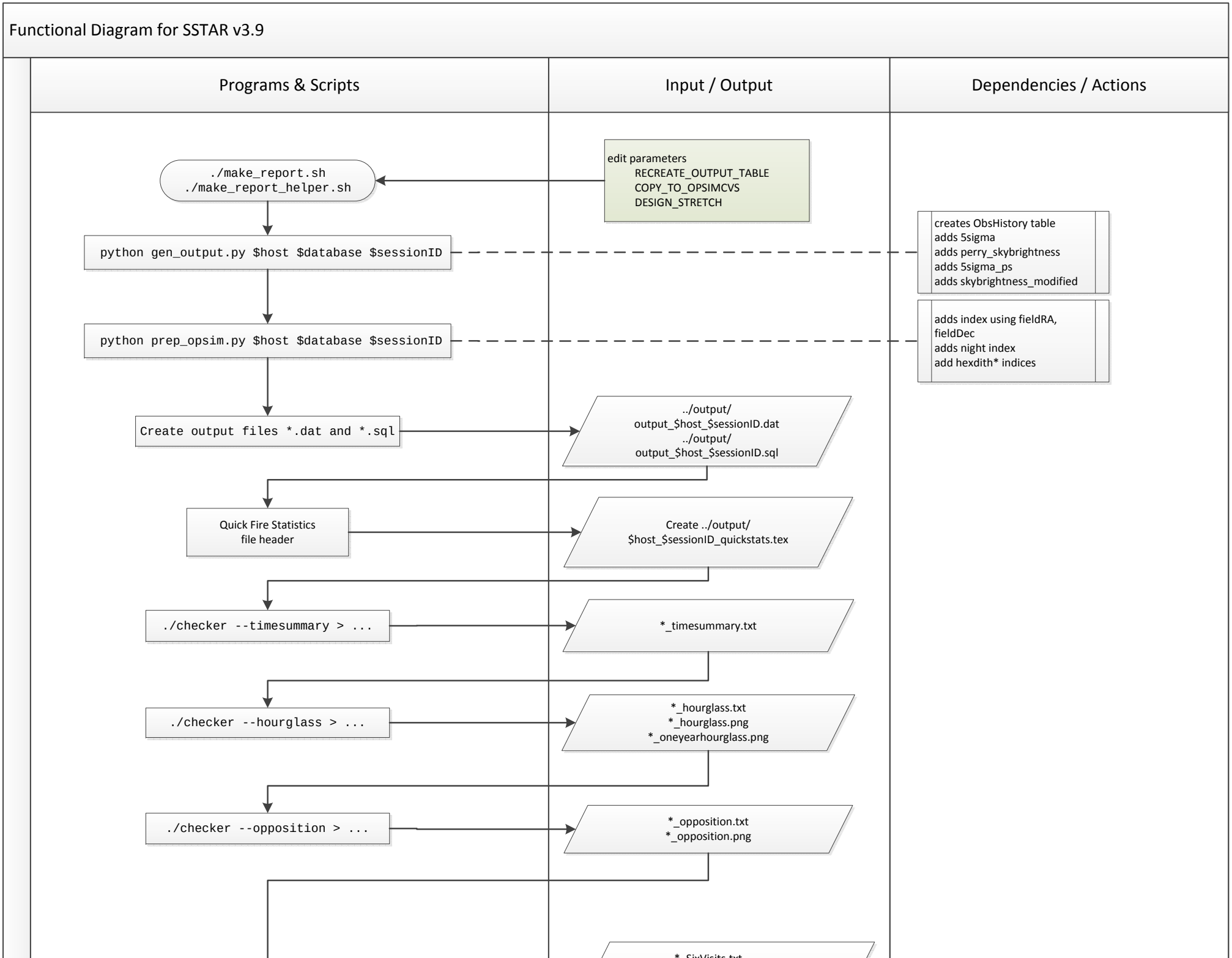
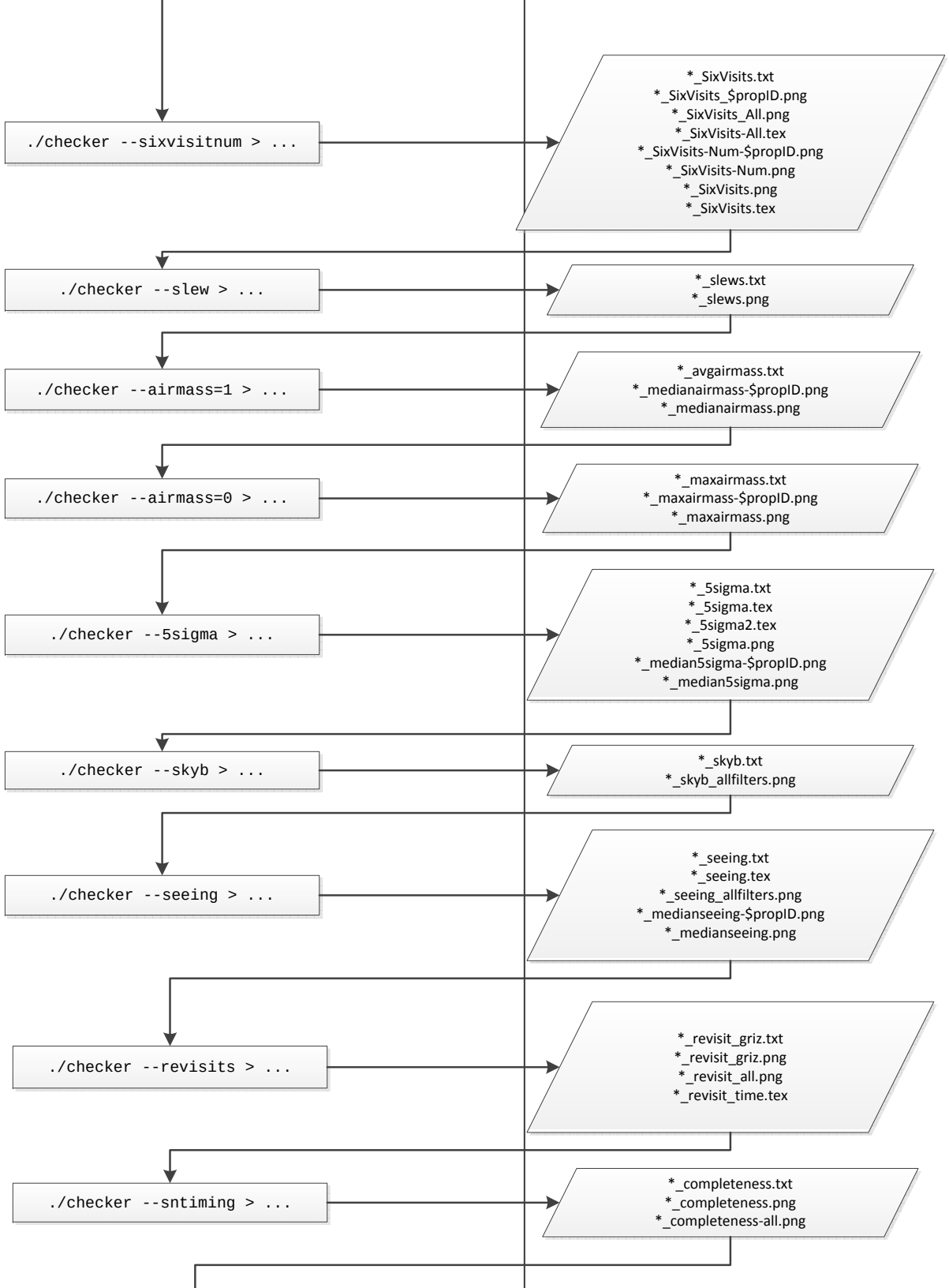
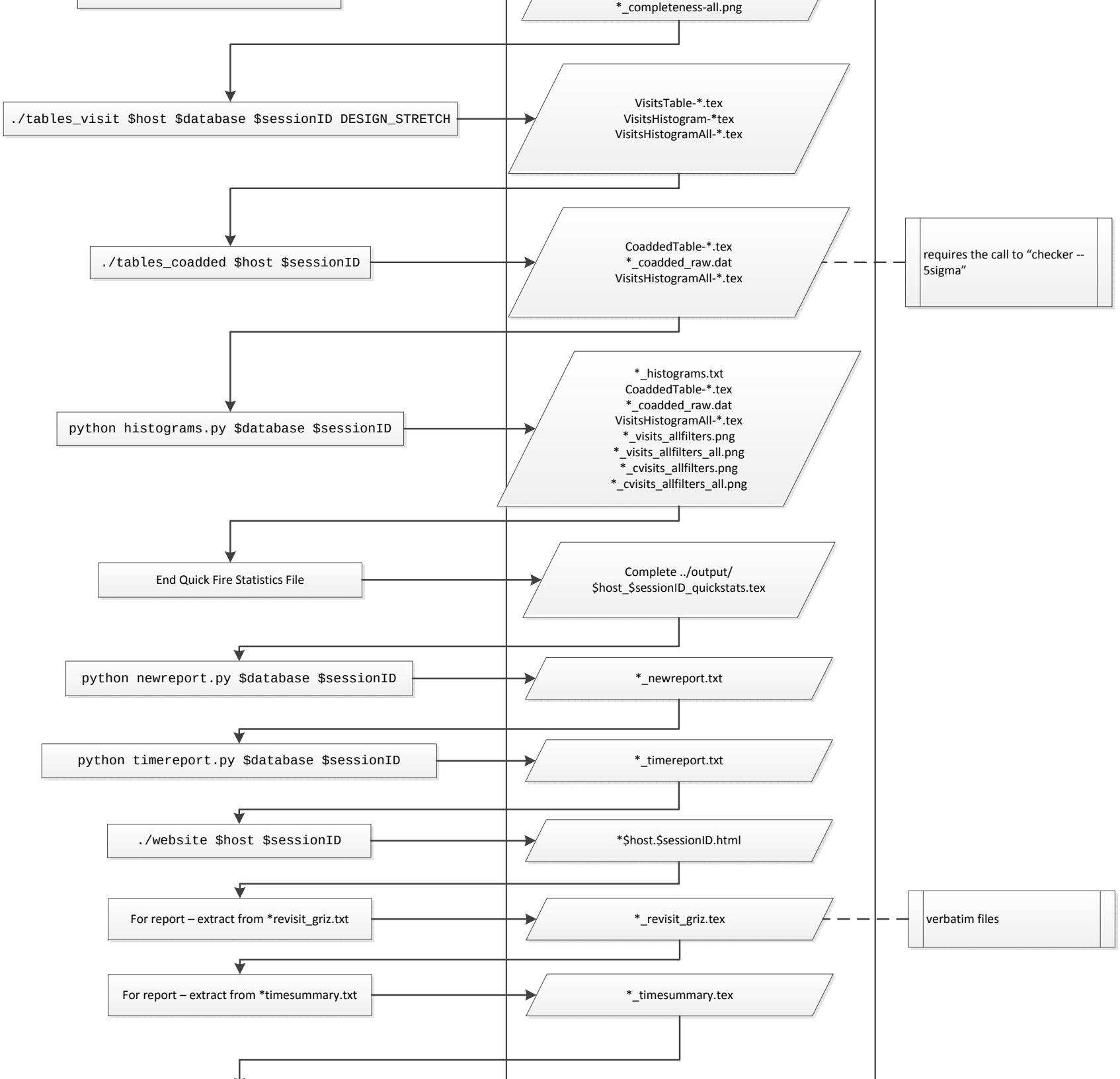
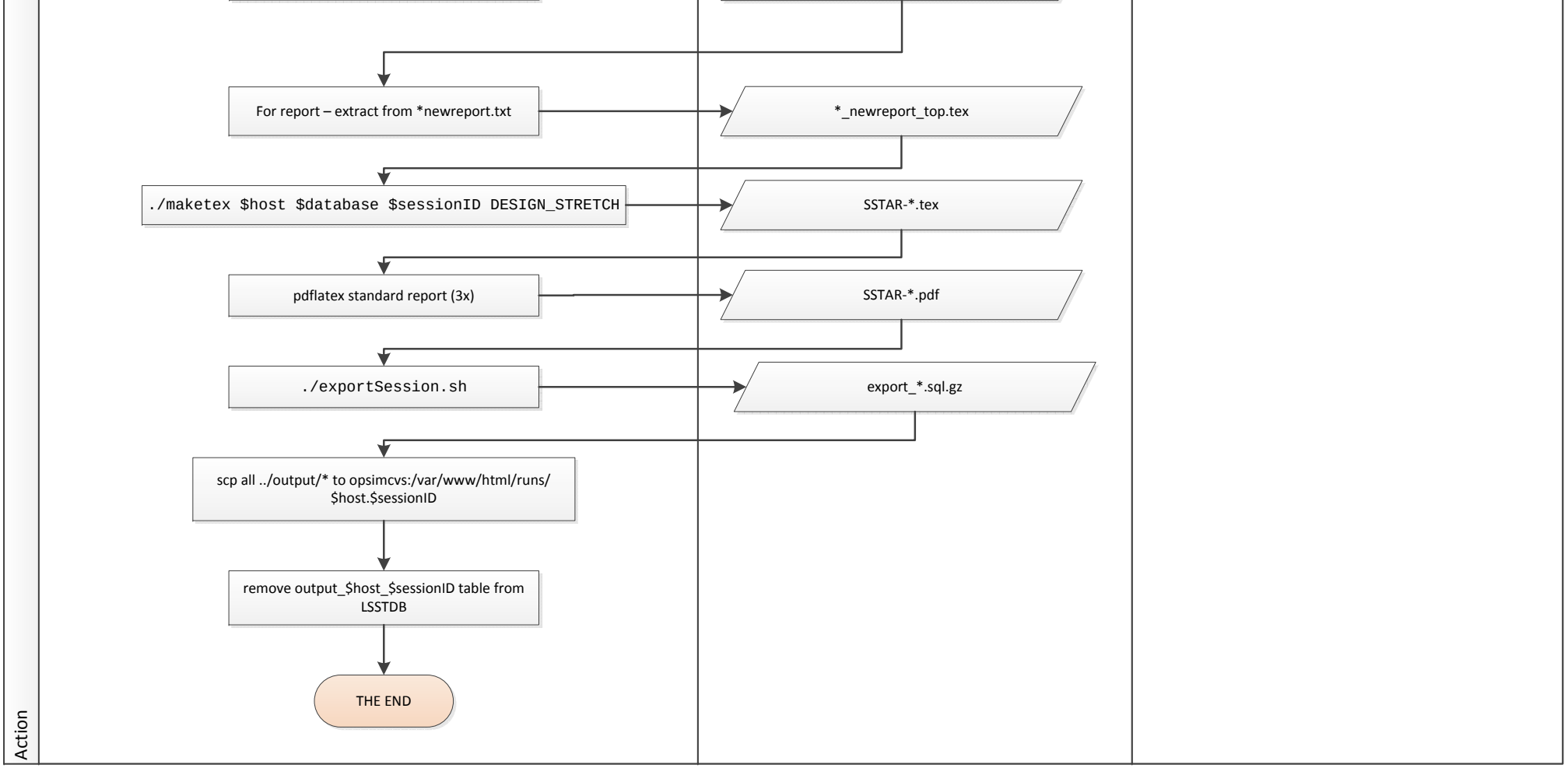

Functional Diagram for SSTAR v3.9
Programs & Scripts
Input / Output
Dependencies / Actions
./make_report.sh
./make_report_helper.sh
edit parameters
RECREATE_OUTPUT_TABLE
COPY_TO_OPSIMCVS
DESIGN_STRETCH
python gen_output.py $host $database $sessionID
creates ObsHistory table
adds 5sigma
adds perry_skybrightness
adds 5sigma_ps
adds skybrightness_modified
python prep_opsim.py $host $database $sessionID
adds index using fieldRA, fieldDec
adds night index
add hexdith* indices
Create output files *.dat and *.sql
../output/
output_$host_$sessionID.dat
../output/
output_$host_$sessionID.sql
Quick Fire Statistics
file header
Create ../output/
$host_$sessionID_quickstats.tex
./checker --timesummary > ...
*_timesummary.txt
./checker --hourglass > ...
*_hourglass.txt
*_hourglass.png
*_oneyearhourglass.png
./checker --opposition > ...
*_opposition.txt
*_opposition.png


./checker --sixvisitnum > ...
*_SixVisits.txt
*_SixVisits_$propID.png
*_SixVisits_All.png
*_SixVisits-All.tex
*_SixVisits-Num-$propID.png
*_SixVisits-Num.png
*_SixVisits.png
*_SixVisits.tex
./checker --slew > ...
*_slews.txt
*_slews.png
./checker --airmass=1 > ...
*_avgairmass.txt
*_medianairmass-$propID.png
*_medianairmass.png
./checker --airmass=0 > ...
*_maxairmass.txt
*_maxairmass-$propID.png
*_maxairmass.png
./checker --5sigma > ...
*_5sigma.txt
*_5sigma.tex
*_5sigma2.tex
*_5sigma.png
*_median5sigma-$propID.png
*_median5sigma.png
./checker --skyb > ...
*_skyb.txt
*_skyb_allfilters.png
./checker --seeing > ...
*_seeing.txt
*_seeing.tex
*_seeing_allfilters.png
*_medianseeing-$propID.png
*_medianseeing.png
./checker --revisits > ...
*_revisit_griz.txt
*_revisit_griz.png
*_revisit_all.png
*_revisit_time.tex
./checker --sntiming > ...
*_completeness.txt
*_completeness.png
*_completeness-all.png


*_completeness-all.png
./tables_visit $host $database $sessionID DESIGN_STRETCH
VisitsTable-*.tex
VisitsHistogram-*tex
VisitsHistogramAll-*.tex
./tables_coadded $host $sessionID
CoaddedTable-*.tex
*_coadded_raw.dat
VisitsHistogramAll-*.tex
requires the call to "checker -- 5sigma"
python histograms.py $database $sessionID
*_histograms.txt
CoaddedTable-*.tex
*_coadded_raw.dat
VisitsHistogramAll-*.tex
*_visits_allfilters.png
*_visits_allfilters_all.png
*_cvisits_allfilters.png
*_cvisits_allfilters_all.png
End Quick Fire Statistics File
Complete ../output/ $host_$sessionID_quickstats.tex
python newreport.py $database $sessionID
*_newreport.txt
python timereport.py $database $sessionID
*_timereport.txt
./website $host $sessionID
*$host.$sessionID.html
For report – extract from *revisit_griz.txt
*_revisit_griz.tex
verbatim files
For report – extract from *timesummary.txt
*_timesummary.tex


Action
For report – extract from *newreport.txt
*_newreport_top.tex
./maketex $host $database $sessionID DESIGN_STRETCH
SSTAR-*.tex
pdflatex standard report (3x)
SSTAR-*.pdf
./exportSession.sh
export_*.sql.gz
scp all ../output/* to opsimcvs:/var/www/html/runs/ $host.$sessionID
remove output_$host_$sessionID table from LSSTDB
THE END