			Software	
Application Name	Application Description	Location	Documentation	AASPI References
	These programs are similar to flatten and stratal			
	slice but work with vector input. Typical "vectors"			
	may be spectral magnitude/phase components,			_
vector_flatten,	most-positive curvature/most-positive curvature			http://mcee.ou.edu/aa
vector_stratal_slice	strike, dip magnitude/dip azimuth, reflector			pi/publications/2015/V
and GUIs	convergence/azimuth of reflector convergence,			allet%20and%20Davog
aaspi_vector_flatten	and so on. The vectors are internally rendered as			<u>stto%20-</u>
and	complex values, interpolated and then output as	Under aaspi_util >	Simple utility. No	%20using%20phase%20
aaspi_vector_stratal	vector magnitude and azimuth (phase)	Formation Attributes	documentation at	in%20spectral%20deco
_slice	components	tab	present.	mposition.pdf
display_aaspi_heade		Under aaspi_util >		
rs and GUI	A simple utility to display the values of headers	Other Utilites and	Simple utility. No	
aaspi_display_aaspi_	after conversion to AASPI format from SEGY	aaspi_util_prestack >	documentation at	
	format. Users select desired header	Other Utilities tabs	present.	Simple utility
	Many attributes, such as SOM and GTM may be			
	most appropriately run along horizons or stratal			
	slices. Applications such as stratal_slice will			
	generate input data along irregular (interpolated)			
	surfaces, where each trace exhibits a different			
	start time and sample increment. This program			
convert stratal slice	outputs a suite of ascii-format files that can be			
_to_ascii_surface	reimported into Kingdom Suite, GoCad, VoxelGeo,			
and its GUI	and other packages that allow importation of			
	(inline, crossline, time, attribute) quartets. At		Simple utility. No	
· – ·	present, it does not appear that Petrel allows such	Under aaspijutil >	documentation at	
_struttal_shee_to_use ii surface	importation	Other Utilites	present.	Simple utility

	Proximal Support Vector Machines is a modern			
	supervised learning algorithm written by Ph.D.		http://mcee.ou.edu/aas	
	candidate Tao Zhao that clusters data given		pi/documentation/Volu	http://mcee.ou.edu/aas
	external training, such as well log correlations to	Under aaspi_util >	metric_Classification-	pi/submitted/2015/Tao
psvm3d	multiple seismic attribute data about the wells.	Formation Attributes	<u>psvm3d.pdf</u>	_Interpretation_1.pdf
	This program is used in training and validation of			
	seismic facies produced by program psvm3d. This			
	program reads in ASCII format data (typically from			
	well logs but perhaps also hand picked facies		file:///ouhomes/aaspi/A	
	values ir microseismic event locations and	Under aaspi_util >	ASPI_GIT/documentatio	http://mcee.ou.edu/aas
	magnitude). These data are then linked to predict	Formation Attributes	n/Well_Analysis-	pi/publications/2014/Ta
psvm_welllogs	corresponding attribute vectors.	tab	<u>psvm3d.pdf</u>	o_SEG.pdf