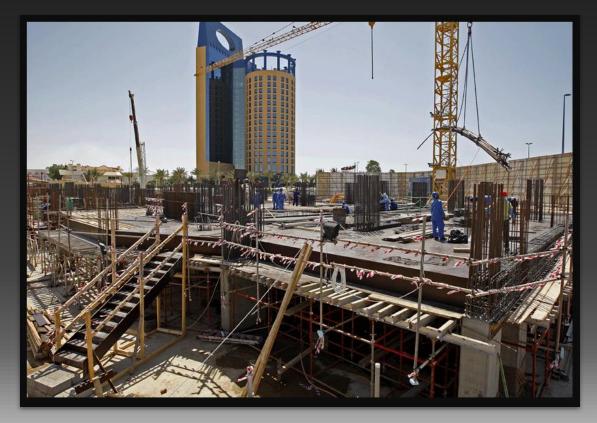
dbloc work-in-progress prototype



Work-in-progress



Outline

- Short history
- Design goals
- Current prototype
- Demo
- Feedback welcome on where we're headed

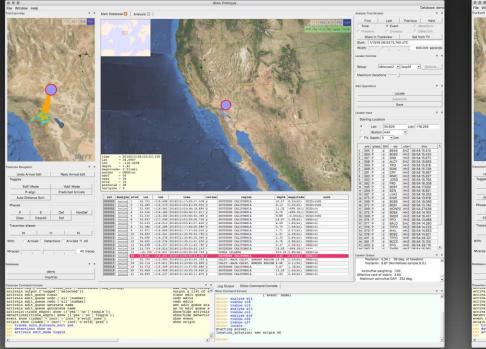
Short history of dbloc2 and dbloc

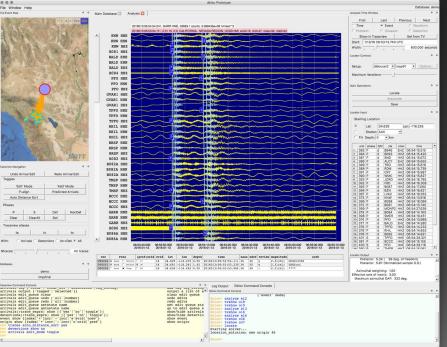
- Dan Quinlan and Luda Ratnikova designed initial dbloc2 in the 1990's for small regional networks
- From late 1990's to present, dbloc2/dbpick has worked well (dbpick even earlier)
- Mounting pressure from user community for modernization plus need to switch to modern toolkits for maintainability spurred rewrite
- New effort called 'dbloc' rather than objectionable 'dbloc3' -- history of original 'dbloc' lost to time, we're taking the name back
- Coding efforts begun Summer 2018
 - First glimpse at Victoria AUG 2018
 - First presentable early-prototype May 2019

Design goals for dbloc

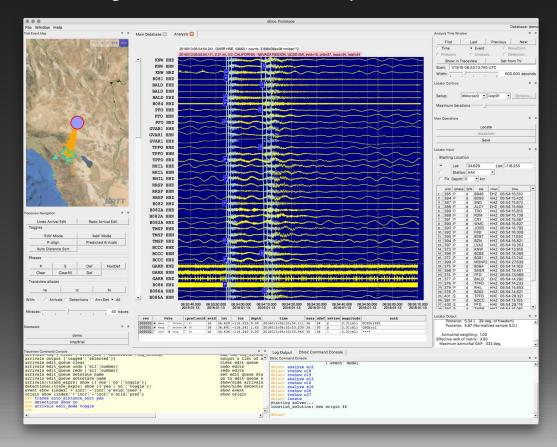
- Reestablish maintainability of software by switching to modern toolkits
- Support enterprise-scale network operations
- Continue supporting small-network operations
- Modernize user-interaction features and capabilities
- Retain main features of existing programs
- Integrate waveform-processing and earthquake-analysis components (dbloc2 vs dbpick) since that is now possible
- Integrate, modernize, and/or re-integrate myriad features such as magnitude calculation, moment tensors etc. to produce a unified analyst experience

Current prototype -- overview

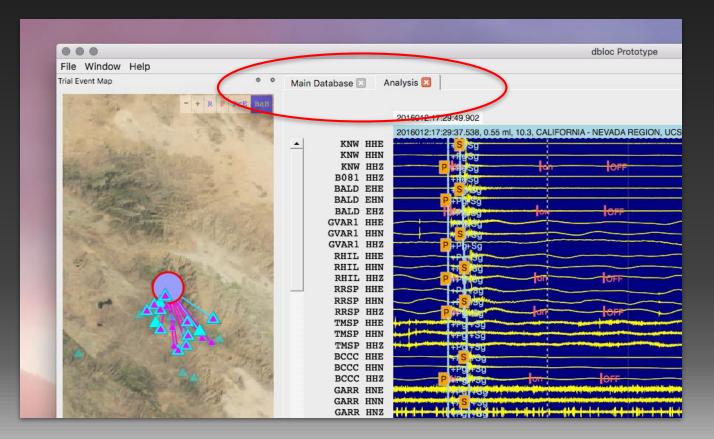




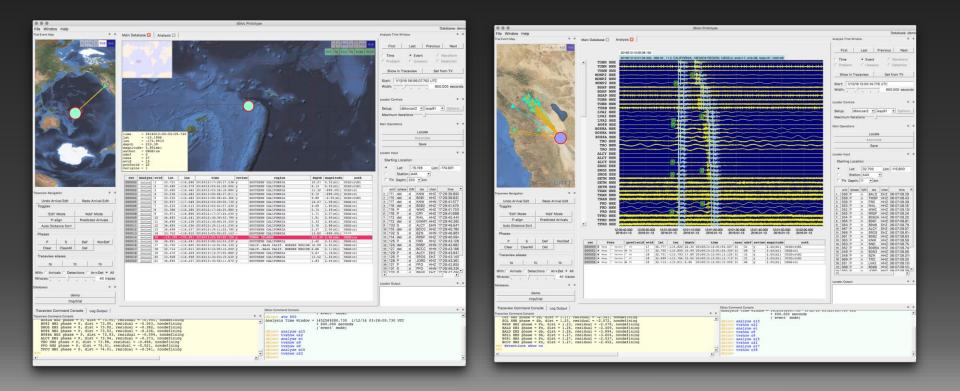
Major feature -- Full integration of waveform analysis via traceview



Major feature -- Tabbed panels for analyst tasks



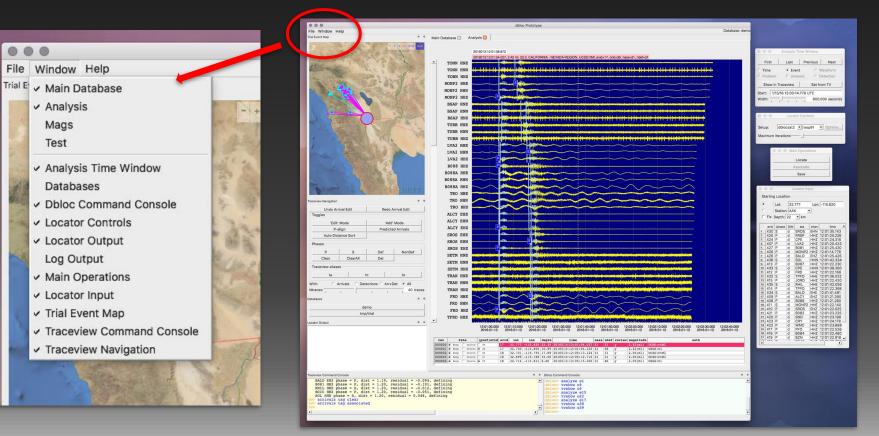
Major feature -- Integrated maps



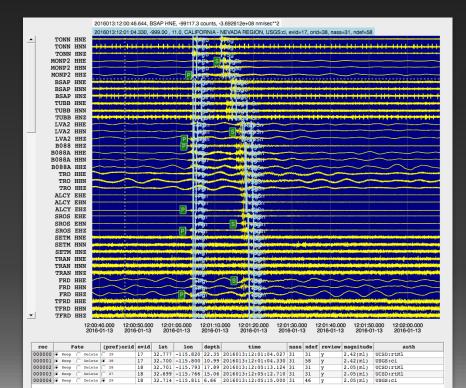
Major feature -- Built-in command consoles for command-driven interaction

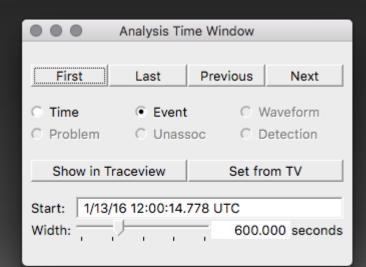
Traceview Command Console The full phase = P, dist = 1.17, residual = 0.444, defining BTO HIM phase = P, dist = 1.15, residual = -0.551, defining BTO HIM phase = P, dist = 1.15, residual = -0.164, defining BTO HIM phase = P, dist = -1.15, residual = -0.164, defining LVAE HIM phase = P, dist = -1.25, residual = 0.518, defining LVAE HIM phase = P, dist = -1.25, residual = 0.518, defining LVAE HIM phase = P, dist = -1.25, residual = 0.518, defining LVAE HIM phase = P, dist = -1.24, residual = 0.518, defining LVAE HIM phase = P, dist = -1.24, residual = 0.518, defining LVAE HIM phase = P, dist = -1.24, residual = 0.518, defining LVAE HIM phase = P, dist = -1.24, residual = 0.518, defining LVAE HIM phase = P, dist = -1.24, residual = -1.250, defining HIM phase = P, dist = -1.24, residual = -1.250, defining HIM phase = P, dist = -1.24, residual = -1.250, defining HIM phase = P, dist = -1.24, residual = -1.250, defining HIM phase = P, dist = -1.24, residual = -1.250, defining HIM phase = P, dist = -1.24, residual = -1.250, defining HIM phase = P, dist = -1.24, residual = -1.250, defining HIM phase = P, dist = -1.24, residual = -1.250, defining HIM phase = P, dist = -1.24, residual = -1.250, residual = -1.250, defining HIM phase = P, dist = -1.24, residual = -1.250, residual = -1.250, defining HIM Phase = P, dist = -1.24, residual = -1.250, dist = -1.250, dist = -1.250, residual = -1.250, residual = -1.250, residual = -1.250, dist = -1.250, residual = -1.250, residual = -1.250, residual = -1.250, dist = -1.250, residual = -1.250, resi ... **Dbloc Command Console** atw first Analysis Time Window = 1452569280.730 1/12/16 03:28:00.730 UTC + 600.000 seconds arrivals tag clear arrivals tag associated ('event' mode) dbloc> atw 600 arrivals tag D Analysis Time Window = 1452569280.730 1/12/16 03:28:00.730 UTC help + 600.000 seconds display help ('event' mode) help display help acho with substitutions bloc> analyze e12 alias name [substitution string] make a command alias tvshow o18 unalias name remove a command alias tyshow o19 show all aliases aliases hotkey name [substitution_string] unhotkey name make a hot key assignment remove a hot key assignment analyze e13 tvshow ol6 hotkeys main import file name show all hot key assignments analyze el6 import commands main export file_name display time_start {time_string|'+'time_string|'-'time_string} export commands tychow 036 set display start time > tyshow o37 display time_start {time_string | ''time_str display time window time string display paing [{'yes | 'no' | 'toggle }] display abow_pred [{'yes' | 'no' | 'toggle }] display bacch [{'yes' | 'no' | 'toggle }] traces maximum number set display time window duration zoom display time window by factor so that time_anchor is in the same relative position > locate Starting solver ... enable/disable display P-arrival alignment enable/disable show display predicted arrivals location_solution: new origin 46 enable/disable batch mode set maximum number of traces to display in the vertical window dbloc> analyze e15 traces minimum pixels number set minimum vertical height of traces traces minimum pixels number traces fit ('auto' 'toogle' yes ''no'] traces stat ('auto' 'toogle') traces stat ('yes ''no' 'toogle') traces stat ('yes ''no') traces auto_distance_sort ('yes ''no''toogle') traces (trace_exprs) select ({'yes ''no''toogle') traces (trace) fit traces to vertical window subject to maximum and minimum_pixels enable/disable show only traces with arrivals oc> tvshow o22 > tvshow o26 enable/disable show only traces with detections enable/disable show only traces with arrivals and/or detections locate enable/disable automatic trace sorting by distance from event set gains of all traces Starting solver... location solution: new origin 47 select/deselect traces whose labels match trace_exprs configure traceview or trace objects traces[:trace_exprs] dup traces[:trace_exprs] show [{'yes'|'no'|'toggle'}] duplicate traces whose labels match trace_exprs show/hide traces whose labels match trace_exprs bloc> locate Starting solver ... traces[:trace_exprs] order traces[:trace_exprs] zoom [{first_index number|number|factor [first_y]}] order and show traces whose labels match trace_exprs zoom traces to first and last labels that match trace_exprs or to the specified indexes location solution: new origin 48 traces[:trace_exprs] start [first_index]
traces[:trace exprs] start factor pan traces to begin at first label that matches trace_exprs or to the specified index stretch vertical heights of traces whose labels match trace exprs bloc> atw next traces[:trace_exprs] color [color_string] traces[:trace exprs] color background [color string] set foreground color of traces whose labels match trace_exprs set background color of traces whose labels match trace_exprs Analysis Time Window = 1452667973.230 1/13/16 06:52:53.230 UTC traces(trace_exprs) color_background (color_string) traces(trace_exprs) color_background (color_string) traces(trace_exprs) tills("trade ('counts')se')) traces(trace_exprs) cols("trade ('counts')se')) traces(trace_exprs) cols("trade ('counts')se')) artivals select (clear' artid ('yss) [no'|'cogle')) artivals select (clear' artid ('yss) traces) (trade ('cogle')) + 600,000 seconds set linewidth of traces whose labels match trace_exprs set filter of traces whose labels match trace exprs. ('event' mode) set units of traces whose labels match trace_exprs bloc> window analysis set vertical scale factor of traces whose labels match trace_exprs bloc> tyshow o37 enable/disable arrivals edit mode clear selected arrivals or enable/disable selected arrival enable/disable interactive add arrivals mode c> locate Starting solver ... copy selected arrivals into clipboard or clear clipboard paste arrivals in clipboard arrivals copy ['clear'] arrivals paste ['dont paste tags'] time string location solution: new origin 49 arrivals phase phase string arrivals tag {'clear |'clear all'|'associated'|tag string} set selected arrivals phase to phase_string add tag tag string to selected arrivals or clear selected arrivals tags or clear all arrivals tags bloc> atw next arrivals tag { clear | clear ail | assoc arrivals output { tagged | selected } } arrivals edit_queue clear arrivals edit_queue undo [all | number] arrivals edit_queue setstate name arrivals edit_queue setstate name output a list of arids and association status for tagged or selected arrivals Analysis Time Window = 1452686404.330 1/13/16 12:00:04.330 UTC clear edit queue + 600,000 seconds undo edits redo edits ('event' mode) set edit queue state dbloc> window analysis arrivals edit queue gotostate name go to edit queue state arrivals end queue gotostate name arrivals:trace exprs; show [{'yes'|'no'|'toggle'}] detections[:trace exprs; show [{'yes'|'no'|'toggle'}] event show {index''+'incr'-'incr'e'eid| noev'} origin show {index''+'incr'-'incr'o'rid 'pref} show/hide arrivals that match arrival_exprs show/hide detections that match detection exprs show event show origin traces auto_distance_sort yes detections show no arrivals edit mode toggle

Major feature -- Multi-window design with detachable docking widgets

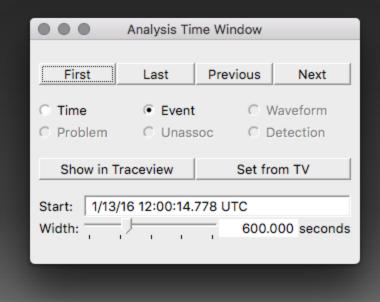


Major feature -- Clear primacy of "Analysis Time Window" concept





Minor feature -- Multiple hop modes (time-based, event-based, etc.) to advance Analysis Time Window

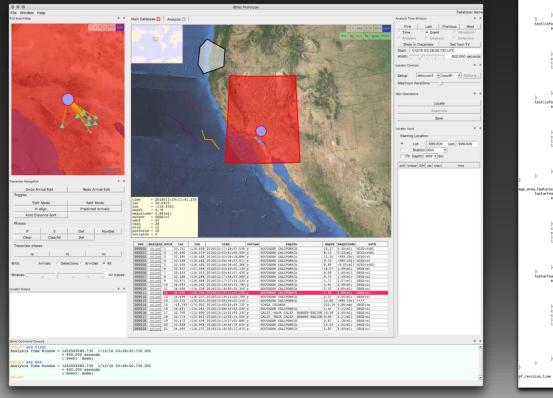


Minor feature -- Built in widgets to show log and locator output

 $\bullet \bullet \bullet$ Log Output dbloc: Focusing to first Analysis Time Window dbloc: Analysis Time Window changed: now 1/12/16 03:28:00.730 UTC + 600.000 seconds dbloc: Found 1 events in main database for time window 1/12/16 03:28:00.730 UTC + 600.000 seconds Ibloc: Rebuilding trial database 'tmp/trial' with 1 events Ibloc: Analysis Time Window unchanged: still 1/12/16 03:28:00.730 UTC + 600.000 seconds dbloc: Analysis Time Window changed: now 1/12/16 19:11:01.688 UTC + 600.000 seconds bloc: Found 2 events in main database for time window 1/12/16 19:11:01.688 UTC + 600.000 seconds loc: Rebuilding trial database 'tmp/trial' with 2 events bloc: Found 2 events in main database for time window 1/12/16 19:10:43.087 UTC + 600.000 seconds loc: Rebuilding trial database 'tmp/trial' with 2 events dbloc: Found 1 events in main database for time window 1/13/16 06:53:13.740 UTC + 600.000 seconds bloc: Rebuilding trial database 'tmp/trial' with 1 events dbloc: Locating event dblocsat2: File /opt/antelope/5.9/data/tables/dblocsat/iasp91.LQ will not open! dblocsat2: File /opt/antelope/5.9/data/tables/dblocsat/iasp91.LR will not open! dblocsat2: File /opt/antelope/5.9/data/tables/dblocsat/iasp91.Rg will not open! dblocsat2: File /opt/antelope/5.9/data/tables/dblocsat/iasp91.SS will not open! dblocsat2: Warning locate event: No observations to process dblocsat2: Starting solver... blocsat2: location_solution: new origin 46 bloc: can't statfs tmp/trial.mt Ibloc: No such file or directory

B082 P t					Locator Ou	Itput	
	0.88	1.03	-0.15	-1.47	1.08		
TPFO S t	14.58	15.05	-0.47	-4.67			
BCCC P t	1.41	1.30	0.12	1.18			
PFO S t	14.38	14.88	-0.51	-5.06	1.04		
TMSP P t	1.32	1.12	0.20		1.08		
BALD S t		14.95	0.19	1.86	1.04		
3086 P t	1.52	1.54 13.62	-0.02	-0.16	1.10		
KNW S t	14.91	13.62	1.29	-0.16	1.00		
B086A P t		1.54			1.10		
B086A S t		17.05	0.22	2.17	1.10		
BCCC S t	16.00	16.62	-0.63	-6.25	1.10		
> Sighat: 5.341 > True Cond. No	NSSD: 5.	866 dLa Effect	et: -0.0	39 dLo d. Num.:	n: 0.005 i 9.58	JZ: 0.000	
Location ran for	10 iteratio	ns Cor	verged!				
Final location e Latitude: 3 Longitude: 1	stimate (+/ 4.636 deg.	- S.D.): N +/-	0.403 km	n.			
Longitude: 1	16.243 deg	. W +/-	0.754	cm.			
Depth: 0	.000 km.	+/- 0.0	000 km.				
Relative O.T .: -	19.776 sec	. +/- 0	0.067 set				
Absolute O.T.:	-19.776 set	a. +/-	0.067 se	BC.			
Confidence reg	ion at 0.90	level:					
Semi-major ax	is: 9.3 k	m. = 0.0	8 deg.				
Semi-minor as	is: 4.0 k	. = 0.0	4 deg.				
Major-axis strik	e: 107.7 d	eg. clock	wise from	m North			
Depth error							
Orig. time erro	: 0.6 set						
Standard errors	(einma)-						
		log of fre	(mohoo)				
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	5.87 (Nori						
Posterior:	2.07 (NOI)	menzed s	omple 5.	and I			
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Minor feature -- Specification of custom shade areas, linear features via map_features.pf



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color_outline black
color_fill \#88FFFFFF color_fill linewidth lonlat_points_sequence &Tbl(-126 -126 -125 -122 -122 -122 -125 -126 -44 4 4 pf_revision_time 1555703380

Minor feature -- Built-in Smartpick-style traceview control buttons

Minor feature -- Spreadsheet table for list of arrivals going into the location

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	29	401	S	d	TPFO	HHE	06:54:28.321				
	30	400	S	d	PFO	HHE	06:54:28.116				
31 403 S d BALD EHE 06:54:28.878	31	403	S	d	BALD	EHE	06:54:28.878				
32 402 S d KNW HHN 06:54:28.651	32	402	S	d	KNW	HHN	06:54:28.651				
33 405 S d B086A HHE 06:54:31.006	33	405	S	d	B086A	HHE	06:54:31.006				
34 404 S d BCCC HHN 06:54:29.738	34	404	S	d	BCCC	HHN	06:54:29.738				

I could go on for days...

Demonstration!

Thank you -- Questions?

Feedback: support@brtt.com