#### In Xanadu did Kubla Khan

#### Xanadu, by Samuel Taylor Coleridge (1816)

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A stately pleasure-dome decree:
Where Alph, the sacred river, ran
Through caverns measureless to man
Down to a sunless sea.

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#### Berkeley Zoo, by Timothy Alden Davis (2015)

In Berkeley Zoo did Demmel, Jim A scaling LAPACK decree: Where Inf, the underflow, and NaN Threw errors measureless to man In Fortran, less in C.

So twice five miles of fertile ground With walls and towers were girdled round: And there were gardens bright with sinuous rills, Where blossomed many an incense-bearing tree; And there were forests ancient as the hills, Enfolding sunny spots of greenery.

With twice five eps of rounding down
Strong scaling walls were girdled round:
And there were gardens bright with polynomials,
Where blossomed many a source code tree
All writ in Fortran ancient as the hills,
Enfolding speedy BLAS assembly.

But oh! that deep romantic chasm which slanted Down the green hill athwart a cedarn cover! A savage place! as holy and enchanted As e'er beneath a waning moon was haunted By woman wailing for her demon-lover!

But oh! that communication chasm which slanted Down the plots of performance limits! A savage place! as holy and enchanted As e'er beneath a waning core was powered By woman wailing for her silent-coder!

And from this chasm, with ceaseless turmoil seething, As if this earth in fast thick pants were breathing, A mighty fountain momently was forced: Amid whose swift half-intermitted burst

And from this chasm, with furious message seething, As if the cores in fast thick flops were breathing, A mighty matrix momently was forced:

Amid whose swift ill-conditioned burst

Huge fragments vaulted like rebounding hail, Or chaffy grain beneath the thresher's flail: And 'mid these dancing rocks at once and ever It flung up momently the sacred river.

> Huge messages sent like rebounding hail, Or chaffy bits beneath a thrashing page: Yet cutting these comms at once and ever, Jim flung up momently the flowing code.

Five miles meandering with a mazy motion Through wood and dale the sacred river ran, Then reached the caverns measureless to man, And sank in tumult to a lifeless ocean: And 'mid this tumult Kubla heard from far Ancestral voices prophesying war!

For years developing with a mazy motion Through papers thick the sacred package ran Then reached the archives measureless to man, And sync'ed in git to a tar gz:

And 'mid this tumult Demmel heard from far Spectral problems clammering for QR!

The shadow of the dome of pleasure Floated midway on the waves; Where was heard the mingled measure From the fountain and the caves. It was a miracle of rare device, A sunny pleasure-dome with caves of ice!

The shadow of the code so treasured Floating rounded 'way from zero; Where was lowered the ratio measured Of the words to all the flops. It was a miracle of rare device, A scaled LAPACK, and so concise!

A damsel with a dulcimer In a vision once I saw: It was an Abyssinian maid, And on her dulcimer she played, Singing of Mount Abora.

A damsel with a dulcimer
In a vision once I saw:
It was an algorithmic maid,
And on her dulcimer she played,
Singing in eigenvalues.

Could I revive within me
Her symphony and song,
To such a deep delight 'twould win me,
That with music loud and long,
I would build that dome in air,
That sunny dome! those caves of ice!

Could I retrieve her eigenvectors and so remake her song, To such a deep delight 'twould win me, That with Fortan code so strong, I would build that package there, That ScalAPACK! Those codes so fast!

And all who heard should see them there, And all should cry, Beware! Beware! His flashing eyes, his floating hair!

> And all who heard should see Jim there, And all should cry, Beware! Beware! His flashing eyes, no floating err!

Weave a circle round him thrice, And close your eyes with holy dread, For he on honey-dew hath fed, And drunk the milk of Paradise.

> Prove a big-O bounded thrice And listen well with holy dread, For he, with silent words, 'tis said, Hath sped the math of Paradise.